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- Badida, J. 1147: Associative operations on certain classes of lattices.
- Bagai, O. P. 5203: Evaluation of certain definite integrals by the use of differential equations.
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- Bagemihl, Frederick. 2202: Sufficient conditions for the validity of Cauchy's integral formula. 2219: Some approximation theorems for normal functions. 4121: Some boundary properties of normal functions bounded on nontangential arcs.
- Bahrah, M. G. 291: On the asymptotic stability of the solutions of certain differential equations with retarded argument.
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- Baladeaev, A. = Baldeadev, A.
- Baladeaev, A. 3627: (with Senkevich, A. A.) Vibrational relaxation in gases.
- Bailey, Norman T. J. 5500: The simple stochastic epidemic: A complete solution in terms of known functions.
- Bailey, P. B. 1936: A rigorous derivation of some invariant imbedding equations of transport theory. 1937: (with Wing, G. M.) A correction to some invariant imbedding equations of transport theory obtained by "particle counting".
- Baily, Walter L., Jr. 3995: On the moduli of Abelian varieties with multiplications.
- Baiocchi, C. 2186: Osservazioni sulla definizione di integrale di Bochner.
- Baird, G. E. 165: (with Biedenharn, L. C.) On the representations of the semisimple Lie groups. II.
- Bakaev, Ju. N. 1044: Investigating the dynamic and statistical properties of a phase shift system for automatic frequency control for quadratic and combined damping.
- Bakaev, Yu. M. = Bakaev, Ju. N.
- Bakai, A. F. 861: (with Volkov, D. V.) On quantum electrodynamics with a regressed photon.
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- Baker, M. 3753: (with Johnson, K. and Lee, B. W.) Broken symmetries and zero-mass bosons.
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- Balabanov, V. A. 479: The problem of stability of the eigenlements of non-linear operators.
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- Banerji, Ranan B. 2931: Phrase structure languages, finite machines, and channel capacity.
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- Barakat, Richard. 2262: (with Houston, Agnes) Chebyshev expansion of the sine and cosine integrals.
- Baranecv, R. G. 1923: The method of integral moment kinetic equations. 2750: Asymptotic formulae for the exchange coefficients by the momentum and energy on the surface of a body in a rarefied gas flow.
- Baranger, Michel. 913: Theory of finite nuclei.
- Baranović, T. M. 5019: Free decompositions in the intersection of primitive classes of algebras.
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- Bateman, P. T. 5189: Sequences of mass distributions on the unit circle which tend to a uniform distribution.
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- Baur, F. V. = Bauer, Friedrich-Wilhelm.
- Bauer, Friedrich-Wilhelm. 1619: Dimensionstheorie und differenzierbare Mannigfaltigkeiten. 3424: Universal homotopy groups.
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- Bauer, Jean-Pierre. 1166: Méthodes d'approximations successives en arithmétique élémentaire.
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- Belen'kii, I. M. = Belen'kii, I. M.
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- Beljakov, V. M. 2259: (with Kravcova, R. I. and Rappoport, M. G.) ★Tables of elliptic integrals. Vol. II.
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- Belobrov, P. K. 1484: (with Gribov, Ju. I.) On a class of Banach spaces of functions.
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- Benedetti, Carlo. 4619: A proposito dei rapporti tra differenza media e scostamenti medio quadratico, semplice medio e semplice medio dalla mediana.
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- Ben-Menahem, Ari. 778: (with Cisternas, Armando) The dynamic response of an elastic half-space to an explosion in a spherical cavity. 5821: (with Knopoff, L.; Aki, K.; Archambeau, C. B. and Hudson, J. A.) Attenuation of dispersed waves.
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- Bentsik, Ettore. 2678: Sulle deformazioni elastiche dovute ad una sollecitazione riducibile a due coppie in equilibrio.
- Benz, Walter. 3360: Elliptische Kreisbüschel als Gruppen.
- Benzeri, Jean-Paul. 1689: Théorie des capacités (d'après G. Choquet).
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- Berendi, G. 844: An axiomatic frame for potential scattering.

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- Beresetskii, V. B. 2832: Asymptotic behavior of scattering amplitudes and the "ghost" problem of the vacuum Regge trajectory.
- Beresetskii, V. B. = Beresetskii, V. B.
- Berezanskii, Ju. M. 370: Existence of weak solutions of certain boundary-value problems for equations of mixed type. 489: A generalization of a multidimensional theorem of Bochner. 2332: Über Randaufgabe von Dirichlet Typus für Schwingungsgleichung der Saite. 2331: (with Roitberg, Ja. A.) On the smoothness up to the boundary of the region of the kernel of the resolvent of an elliptic operator.
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- Berger, M. 558: Correction d'un article antérieur. 1088: Groupes d'holonomie des variétés à connexion affine. 1557: Sur les variétés (4/23)-pinocées de dimension 5.
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- Bhatt, Shri Nivas. 1444: An aspect of local property of $|R, \log n, 1|$ summability of the factored Fourier series. 4298: An aspect of local property of $|N, p_n|$ summability of a Fourier series.
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- Biedenharn, L. C. 165: (with Baird, G. E.) On the representations of the semisimple Lie groups. II. 4862: (with Swamy, N. V. V. J.) Remarks on the relativistic Kepler problem. II. Approximate Dirac-Coulomb Hamiltonian possessing two vector invariants. 5722: (with Reynolds, J. T. and Onley, D. S.) Some exact radial integrals for Dirac-Coulomb functions.
- Bieniek, M. P. 2683: (with Shinouka, M.) Finite plane deformation of a thick-walled cylinder.
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- Bogoljubov, N. 1355: (with Mitropol'skii, Iouri) ★ Les méthodes asymptotiques en théorie des oscillations non linéaires. 1356: (with Mitropol'skii, Ju. A.) ★ Asymptotic methods in the theory of non-linear oscillations. 5235: (with Mitropol'skii, Ju. A.) The method of integral manifolds in non-linear mechanics.
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- Boltzmann, Ludwig. 1931: ★Lectures on gas theory.
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- Bonch-Bruevich, V. L. = Bonč-Bruevič, V. L.
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- Boreli, Mladen. 818: (with Vukovitch, Milan) Sur l'écoulement non permanent dans deux couches de perméabilité très différente.
- Bergard, A. A. 3701: Relativistically invariant transformations in wave function space. 3702: Transverse and longitudinal states of boson fields and dibaric particles.
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- Borsuk, K. = Borsuk, Karol.
- Borsuk, Karol. 5426: Bericht über einige neue Ergebnisse und Probleme aus dem Gebiet der anschaulichen Topologie. 4520: (with Bing, R. H.) A 3-dimensional absolute retract which does not contain any disk.
- Borwein, D. 5276: (with Matsuoka, Y.) On multiplication of Cesàro summable series.
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- Brown, R. 2516: Ten topologies for $X \times Y$.
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- Burger, E. 2047: Bemerkungen zu einigen Fassungen des Gödelschen Unvollständigkeitssatzes.
- Burgess, D. A. 3973: A note on L -functions.
- Burghela, Dan. 581: Sur la compactification des espaces topologiques. 3420: Sur les applications q -triviales.
- Burgoyne, F. D. 1760: Quadrature formulas over infinite intervals in terms of differences. 2633: Approximations to Kelvin functions. 2634: The non-existence of certain Laguerre-Chebyshev quadrature formulas.
- Burke, P. G. 1471: (with Buckingham, R. A.) The solution of integro-differential equations occurring in nuclear collision problems.
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- Burkhardt, F. 1980: Über lineare Gleichungssysteme der Volkswirtschaftsplanung.
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- Bürner, P. 233: (with Nedjalkov, Iv.) Analytical continuation towards the singularities of a harmonic function defined on a line or a plane.
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- Burstein, A. I. = Burštein, A. I.
- Burštein, A. I. 4875: External relaxation.
- Burt, Oscar R. 1978: Economic replacement.
- Busarkin, V. M. 131: (with Kontoroviĭ, P. G.) θ -isolated complexes in a group. 130: (with Starostin, A. I.) Locally finite groups with a partition.
- Busemann, H. 522a: (with Ewald, G. and Shephard, G. C.) Convex bodies and convexity on Grassmann cones. I-IV. 522b: (with Ewald, G. and Shephard, G. C.) Convex bodies and convexity on Grassmann cones. V. Totally convex functionals.
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- Bushaw, D. 2515: ★Elements of general topology.
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- Bušmanova, G. V. 1540: The conformal mapping of surfaces with preservation of integral curvature.
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- Butcher, J. C. 2641: Implicit Runge-Kutta processes.
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- Butkovskij, A. G. 1047: The method of moments in optimal control theory with distributed parameter systems. 4964: Necessary and sufficient optimality conditions for sampled-data control systems. 5883: The broadened principle of the maximum for optimal control problems.
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- Calabi, E. 1956: On the theory of Boolean formulas: Construction of the set of the formulas of minimal cost.
- Calapso, Maria Teresa. 1296: Sul gruppo delle trasformazioni conformi di uno spazio in sé.
- Calapso, Renato. 540: Sulle coppie di congruenze W aderenti ad una superficie e sui determinanti ortogonali di Guichard.
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- Cantor, David G. 4122: A simple construction of analytic functions without radial limits.
- Cap, Ferdinand. 1860: (with Hommel, Raimund) Der Satz von Crocco in der Magnetogasdynamik.
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- Carlsson, Lennart. 2332: On the existence of boundary values for harmonic functions in several variables. 5191: Removable singularities of continuous harmonic functions in R^n .
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- Casadei, Giorgio. 705: L'approssimazione di funzioni di una e più variabili con polinomi mediante calcolatori elettronici.
- Case, K. M. 1939: (with Zweifel, P. F.) Existence and uniqueness theorems for the neutron transport equation.
- Caseau, P. 804: Techniques mathématiques utilisées en mécanique des fluides.
- Čadežnikov, S. M. 2488: Theory of a field of local non-singular hyperstrips in X_n .
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- Cater, S. 3336: Continuous linear functionals on certain topological vector spaces. 3337: Structure theorems for certain operator algebras.
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- Caubet, J. P. 3225: Sur une étude qualitative de l'équation de Duffing.
- Caughey, Thomas K. 757: Derivation and application of the Fokker-Planck equation to discrete nonlinear dynamic systems subjected to white random excitation. 758: Equivalent linearization techniques.
- Cavallès, Paul. 5707: Théorie intrinsèque des spineurs. Adjonctions hermitienne et de Dirac. Conjugaison de charge. 5798: Théorie intrinsèque des spineurs. Décomposition de la représentation de Dirac; interprétation géométrique du spineur.
- Čavčanidze, V. V. 2961: Fundamental relations of the analytic theory of propositional algebra. 1652: (with Bondarev, B. I.) n -level probability theory.
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- Cayford, Afton. 168: (with Marcus, Marvin) Equality in certain inequalities.
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- Cebotarev, G. N. 497: On rings of functions which are integrable with a weight.
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- Čekalin, V. G. 1028: (with Kleščov, V. V.) A comparative volume estimate of one-layer and multi-layer recognition systems.
- Čekmarev, T. V. 1368: Some special cases of solving a system of partial differential equations.
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- Čencov, N. N. 1111: (with Shklar'sky, D. O. and Yaglom, I. M.) ★The USSR Olympiad problem book. Selected problems and theorems of elementary mathematics.
- Cenkl, Bohumil. 3385: Réseaux semi-conjugués sur une surface dans l'espace à connexion projective à quatre dimensions.
- Cenov, I. V. 1804: Sur le principe d'Hamilton-Ostrogradski. 3500: Sur le principe de Lagrange. 3561: Sur le principe de la moindre action. Principe de Maupertuis.
- Čepinoga, M. M. 791: Flow of a viscous fluid in an inclined porous channel.
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- Cervadze, G. N. 2022: Certain properties of stochastic automata and certain methods for synthesizing them.
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- Cerf, Jean. 3442: La théorie de Smale sur le h -cobordisme des variétés. 3444: La nullité de π_0 (Diff S^n). Théorèmes de fibration des espaces de plongements. Applications. 3445: La nullité de π_0 (Diff S^n). 1. Position du problème. 3446: La nullité de π_0 (Diff S^n). 2. Espaces fonctionnels liés aux décompositions d'une sphère plongée dans R^3 . 3447: La nullité de π_0 (Diff S^n). 3. Construction d'une section pour le revêtement π .
- Čerkaš, L. A. 1346: Algebraic solutions of the equation $dy/dx = P(x, y)/Q(x, y)$ where P and Q are second-degree polynomials.
- Čerkašova, K. P. 2767: (with Polovin, R. V.) Disintegration of non-evolutional shock waves.
- Čerkesov, I. V. 1841: The growth and decay of ship waves. 1842: Waves from periodic pressures on flow surfaces of a viscous fluid. 2733: (with Pastushenko, V. V.) Waves in a viscous fluid from a periodically moving pressure system.
- Cermak, J. E. 797: Lagrangian similarity hypothesis applied to diffusion in turbulent shear flow.
- Černavskij, A. V. 2547: Finitely multiple open mappings of manifolds.
- Černikov, N. A. 5769: The relativistic gas in the gravitational field.
- Černikov, S. N. 1203: Nodal solutions of systems of linear inequalities. 1743: Contraction of finite systems of linear inequalities.
- Černikov, V. V. 1284: (with Aleksandrov, I. A.) Extremal properties of univalent starlike mappings.
- Černous'ko, F. L. 990: Resonance phenomena in the motion of a satellite relative to the center of mass. 1968: On the motion of a satellite about its center of mass under the action of gravitational moments.
- Černý, D. E. 4466: Geometry of the Lagrange variational problem with a double integral in X_4 .
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- Cerulus, F. 4795: (with Martin, A.) A lower bound for large angle elastic scattering at high energies.
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- Cesco, R. P. 988: On the homographic solutions of the three-body problem.
- Čelkov, A. A. 1899: (with Shirokov, Yu. M.) Invariant parametrization of the relativistic scattering matrix. 3713: (with Shirokov, Yu. M.) Invariant parametrization of local operators.
- Četaev, N. G. 1358: ★Stability of motion. Papers on analytical mechanics.
- Cetlin, M. L. 2951: Finite automata and the simulation of the simplest forms of behavior. 1068: (with Gelfand, I. M. and Piateckii-Sapiro, I. I.) On certain classes of games and robot games.
- Chabauty, Claude. 1982: Le théorème de Minkowski-Hlawka. 2071: (with Châtelet, A.; Châtelet, F.; Descombes, F.; Pisot, Ch. and Poitou, G.) Introduction à la théorie des nombres.
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- Chakraborty, P. N. 3593: On a method of estimating birth and death rates from several agencies.
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- Chalkley, Roger. 3167: A certain homogeneous differential equation transformation.
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- Chan, Hong-Mo. 889: Real unitary representation of the many-channel S -matrix for complex l and E .
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- Chandrasekhar, S. 2910: The equilibrium and the stability of the Roche ellipsoids. 5802: Dynamical instability of gaseous masses approaching the Schwarzschild limit in general relativity. 5617: A general variational principle governing the radial and the non-radial oscillations of gaseous masses.
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- Chao, Chong-Yun. 2538: On a theorem of Sabidussi.
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- Charrueau, André. 5074: Sur les polynômes caractéristiques de certains produits de matrices.
- Charitas, B. A. 4559: A geometrical proof of a theorem due to D. Slepian.
- Charknyi, Z. 9: (with Zięba, A.) Jan Zamorski (27. XII. 1927-28. XII. 1961). 8: (with Krywicki, A. and Zamorski, J.) Witold Woliński (9. IX. 1902-9. I. 1961).
- Chase, Stephen U. 119: Function topologies on abelian groups.
- Châtelet, A. 2071: (with Chabauty, C.; Châtelet, F.; Descombes, R.; Pisot, Ch. and Poitou, G.) Introduction à la théorie des nombres.
- Châtelet, F. 2071: (with Chabauty, C.; Châtelet, A.; Descombes, R.; Pisot, Ch. and Poitou, G.) Introduction à la théorie des nombres.
- Chatterjee, S. K. 3184: On some classical orthogonal polynomials. 5200: An integral representation for the product of two generalized Bessel polynomials.
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- Chen, Y. W. 4236: On the solutions of the wave equation in a quadrant of R^4 .
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- Chen, Yung-Ming = Chen, Yung-ming.
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- Chentsov, N. N. = Čencov, N. N.
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- Cherkosov, L. V. = Čerkesov, L. V.
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- Chernous'ko, F. L. = Černous'ko, F. L.
- Chernyi, G. G. = Černyi, G. G.
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- Cheshkov, A. A. = Čelkov, A. A.
- Chevalier, J. 2428: Intégrale opérateur dans les espaces linéaires semi-normés.
- Chevalley, Claude. 1082: L'hypothèse de Riemann pour les corps de fonctions algébriques de caractéristique p . I, II. 1090: Le théorème fondamental de la multiplication complexe (Démonstration de Eichler). 1094: Le corps de rationalité d'une classe de diviseurs.
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- Christian, Ulrich. 2256: Zur Theorie der Hilbert-Siegelschen Modul-funktionen.
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- Ciesielski, Z. 419: Properties of the orthonormal Franklin system.
- Ciliberto, Carlo. 267: Sull'unicità delle soluzioni di un sistema di equazioni differenziali ordinarie.
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- Cinquini-Cibrario, Maria. 1387: Ulteriori ricerche intorno ai sistemi di equazioni a derivate parziali in più variabili indipendenti.
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- Cirul'skil, A. V. 996: Some properties of the complex logarithmic potential of a homogeneous region.
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- Čistjakov, A. L. 910: On multi-channel scattering. 3328: (with Bočvar, D. A. and Stankevič, I. V.) The symmetry of solutions in an eigenvalue problem.
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- Cochran, William G. 695: ★Sampling techniques. 5523: Approximate significance levels of the Behrens-Fisher test.
- Coelho, R. Pereira. 997: (with Gilão, António and Rouleau, Jean) Application de l'équation de la diffusion à la détermination des circulations zonales.
- Cohen, Eckford. 3964: Arithmetical notes. XII. A sequel to Note VI. 3965: A generalization of Axer's theorem and some of its applications. 1188: (with Robinson, Richard L.) On the distribution of the k -free integers in residue classes.
- Cohen, Henry B. 4502: The k -extremally disconnected spaces as projectives.
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- Cohn, J. H. E. 2311: Two examples in perturbation theory. 5023: Square Fibonacci numbers, etc.
- Cohn, Jack. 947: Theory of electrolytes.
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- Cole, Randal H. 3193: General boundary conditions for an ordinary linear differential system.
- Coleman, Bernard D. 3629: (with Markovitz, Hershel) Normal stress effects in second-order fluids. 4780: (with Mizel, Victor J.) Existence of elastic equations of state in thermodynamics. 768: (with Noll, Walter) Material symmetry and thermodynamic inequalities in finite elastic deformations. 1828: (with Noll, Walter) Foundations of linear viscoelasticity.
- Coleman, Sidney. 3766: On partially conserved currents.
- Coles, W. J. 4168: Some boundary value problems for linear differential systems.
- Collatz, L. 2347: Einschliessungssatz für Eigenwerte bei partiellen Differentialgleichungen 2. und 4. Ordnung.
- Collean, Jean. 1963: Propagateurs relatifs aux spins entiers et demi-entiers sur un espace-temps de la relativité générale.
- Collingwood, E. F. 4123: Cluster set theorems for arbitrary functions with applications to function theory.
- Collins, George W., II. 1770: (with Day, James T.) On the numerical solution of boundary value problems for linear ordinary differential equations.
- Collins, W. D. 439: On the solution of some axisymmetric boundary value problems by means of integral equations. VIII. Potential problems for a circular annulus. 5613: Some coplanar punch and crack problems in three-dimensional elastostatics.
- Collinson, C. D. 3841: Symmetry properties of Harrison space-times.
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- Combet, Edmond. 4245: Construction des solutions élémentaires du laplacien d'une variété riemannienne de dimension impaire et de type hyperbolique normal.
- Combet Farnoux, Françoise. 3775: Sur la détermination de certaines intégrales intervenant dans le calcul d'une limite inférieure des niveaux d'énergie des atomes.
- Comfort, W. W. 4503: An example in density character.
- Concus, P. 1757: (with Cassatt, D.; Jaehrig, G. and Melby, E.) Tables for the evaluation of $\int_0^\infty x^2 e^{-x^2} f(x) dx$ by Gauss-Laguerre quadrature.
- Conley, C. C. 3800: A disk mapping associated with the satellite problem.
- Connell, Ian G. 2149: A number theory problem concerning finite groups and rings.
- Connell, Terrence L. 1688: (with Graybill, Franklin A.) Sample size required for estimating the variance within d units of the true value. 4621: (with Graybill, Franklin A.) Sample size required to estimate the parameter in the uniform density within d units of the true value.
- Conner, P. E. 2563: Diffeomorphisms of period two.
- Conrad, Paul. 5124: Skew tensor products and groups of class two.
- Constantinescu, C. 201: (with Cornea, A.) Analytische Abbildungen Riemannscher Flächen. 202: (with Cornea, A.) Normale Kompaktifizierungen Riemannscher Flächen. 3151: (with Cornea, Aurel) ★Ideale Ränder Riemannscher Flächen.
- Conte, Samuel D. 2906: The computation of satellite orbit trajectories.
- Conti, R. 2293: (with Graffi, D. and Sansone, G.) The Italian contribution to the theory of nonlinear ordinary differential equations and to nonlinear mechanics during the years 1951-1961. 1347: (with Reissig, R. and Sansone, G.) ★Qualitative Theorie nichtlinearer Differentialgleichungen.
- Contopoulos, George. 1970: Resonance cases and small divisors in a third integral of motion. I.
- Cooke, J. C. 4313: Some further triple integral equation solutions.
- Coolidge, Julian Lowell. 3357: ★A history of geometrical methods.
- Cooper, H. L. 1812: (with Mindlin, R. D.) On the equations of extensional motion of crystal plates.
- Cooper, J. L. B. 3293: Fourier transforms and inversion formulae for L^p functions.
- Cooper, Leon. 3875: Heuristic methods for location-allocation problems.
- Cooper, Richard K. 3769: (with Mahmoud, Hormoz) Application of the theory of the symmetric group to the several-nucleon problem.
- Cooper, W. W. 1093a: (with Charnes, A.) ★Management models and industrial applications of linear programming. 1093b: (with Charnes, A.) ★Management models and industrial applications of linear programming. Vol. II.
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- Corinaldesi, E. 3779: Perturbation method for diatomic molecules.
- Cornea, A. 201: (with Constantinescu, C.) Analytische Abbildungen Riemannscher Flächen. 202: (with Constantinescu, C.) Normale Kompaktifizierungen Riemannscher Flächen. 3151: (with Constantinescu, Corneliu) ★Ideale Ränder Riemannscher Flächen.
- Cornille, Henri. 393: Contribution à l'étude des propriétés de la diffusion par des potentiels du type de Yukawa généralisés.
- Cornish, F. H. J. 1951: General relativity in terms of a background space. 3789: Møller's energy momentum pseudo-tensor and its application to the Born-Infeld model of a charged particle.
- van der Corput, J. G. 5284: La valeur qu'il faut attribuer à une fonction en un point singulier.
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- Coxeter, H. S. M. 518: (with Chilton, B. L.) Polar zonohedra. 1532: (with Fejes Tóth, L.) The total length of the edges of a non-euclidean polyhedron with triangular faces.
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- Craig, C. C. 1684: On the mean and variance of the smaller of two drawings from a binomial population.

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- Crasse, Étienne. 2760: (with Poirier, Yves and Vivès, Charles) Étude théorique des oscillations forcées sinusoïdales entre plans parallèles indéfinis d'un liquide électroconducteur, en présence d'un champ magnétique transversal.
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- Crow, Edwin L. 1673: (with Bardwell, George E.) A two-parameter family of hyper-Poisson distributions.
- Crowe, D. W. 4036: Generating reflections for $U(2, p^2)$. II. $p=2$.
- Crupi, Giovanni. 2710: Condizioni di compatibilità dinamica nella teoria dei fenomeni magneto-elastici. 3630: Su particolari onde cilindriche della magneto-idrodinamica.
- Čaščí, E. 3468: (with Vincze, I.) On some combinatorial relations concerning the symmetric random walk.
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- Čudakov, N. G. 3015: (with Gelfond, A. O.; Linnik, Ju. V. and Jakubovič, V. A.) Letter to the editor: On an erroneous paper of N. I. Gavrilov.
- Čudov, L. A. 1766: (with Sarmin, E. N.) On the stability of the numerical integration of systems of ordinary differential equations arising from the application of the method of lines.
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- Cunha, T. 4632: Least squares estimates and parabolic regression with restricted location for the stationary point.
- Cunkie, C. H. 2066: Symmetric Boolean functions.
- Cunningham, J. 3682: The number of independent variables for an n -particle collision.
- Curjel, C. R. 1624: (with Arkowitz, M.) The Hurewicz homomorphism and finite homotopy invariants.
- Currie, Douglas G. 1960: Interaction contra classical relativistic Hamiltonian particle mechanics. 1909: (with Jordan, T. F. and Sudarshan, E. C. G.) Erratum: "Relativistic invariance and Hamiltonian theories of interacting particles".
- Curtis, Charles W. 4022: Groups with a Bruhat decomposition.
- Curtis, H. Allen. 1064: Use of decomposition theory in the solution of the state assignment problem of sequential machines.
- Curtis, M. L. 1602: Homotopy manifolds.
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- Curtiss, J. H. 4137: Interpolation by harmonic polynomials.
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- Cypkin, Ja. Z. 2305: Periodic solutions of non-linear finite-difference equations and their stability. 2929: Absolute stability of equilibrium and processes in non-linear sampled-data systems. 4065: Frequency criteria for absolute stability of non-linear sampled-data systems.
- Cyprin, M. E. 5387: An expression for the measures of curvature and torsion for an unusual ruled surface.
- Čiao, Čien = Chao, Chen.
- Czerwono, Jerry. 3924: Quantum statistical mechanics of antiferromagnetics. I.
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- Dade, E. C. 4023: Lifting group characters. 5123: Integral systems of imprimitivity. 2662: (with Zassenhaus, H.) How programming difficulties can lead to theoretical advances. 5079: (with Robinson, D. W.; Taussky, O. and Ward, M.) Divisors of recurrent sequences.
- Dahlquist, Germund G. 4679: Stability questions for some numerical methods for ordinary differential equations.
- Dalecki, Ju. L. 284: Spatio-temporal integrals related to some differential equations and systems. 474: Fundamental solutions of an operator equation and continual integrals. 1515: Continual integrals and characteristics related to a group of operators. 4389: Functional integrals associated with operator evolution equations.
- Dalenius, T. 697: The panel approach to continuous sample survey activity.
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- Danišuk, I. I. 2341: A study of spatial axisymmetric boundary-value problems.
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- Darling, D. A. 5823: (with Kincaid, W. M.) An inventory pricing problem.
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- Darst, R. B. 170: The Lebesgue decomposition.
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- Das Gupta, S. 1698: (with Anderson, T. W.) Monotonicity of the power functions of some tests of independence between two sets of variates. 5070: (with Anderson, T. W.) Some inequalities on characteristic roots of matrices. 1697: (with Anderson, T. W. and Mudholkar, G. S.) Monotonicity of the power functions of some tests of the multivariate linear hypothesis.
- Đakić, L. S. 3345: On the closure of certain differential operators.
- Datta, D. K. 4476: Some theorems on symmetric recurrent tensors of the second order.
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- Davies, E. T. 1575: On the use of osculating spaces.
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- Davis, Allen S. 584: The uniform continuity of continuous functions on a topological space. 4531: Fixpoint theorem for contractions of a well-chained topological space.
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- Day, J. T. 1775: A Gaussian quadrature method for the numerical solution of the characteristic initial value problem $u_{xy} = f(x, y, u)$. 1770: (with Collins, George W., II.) On the numerical solution of boundary value problems for linear ordinary differential equations.
- Day, Mahlon Marsh. 2447: Convolutions, means, and spectra.
- Dean, P. 949: (with Bacon, M. D.) The nature of vibrational modes in disordered systems. 951: (with Bacon, M. D.) Vibrational modes of disordered linear chains.
- Dean, R. A. 1144: Free lattices generated by partially ordered sets and preserving bounds.
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- Deb, Dipti. 5612: Note on the rotation of an anisotropic elliptic cylinder about its axis.
- De Barr, A. E. 2001: ★Automatic control. An introduction to the theory of feedback and feedback control systems.
- Deckard, Don. 4379: (with Pearcy, Carl) On algebraic closure in function algebras.
- Dedecker, Paul. 2136: Le foncteur Hom non abélien. Applications de la notion de poulpe.
- Dedekind, Richard. 3989: ★Essays on the theory of numbers. I: Continuity and irrational numbers. II: The nature and meaning of numbers.
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- Dekker, T. J. 1746: Evaluation of determinants, solution of systems of linear equations and matrix inversion.
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- Deleanu, A. 5242: Note on differential equations in locally convex spaces.
- Dell'Antonio, Gianfausto. 4867: (with Aizu, Ko and Siegert, Arnold J. F.) Field operators for bosons with impenetrable cores. II. Equations of motion and general operator formalism.
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- Delsarte, Jean. 1084: Nombre de solutions des équations polynomiales sur un corps fini.
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- Delzant, Antoine. 1092: Groupes de Lie compacts et tores maximaux.
- DeMarr, Ralph A. = DeMarr, Ralph E.
- DeMarr, Ralph E. 2446: Common fixed points for commuting contraction mappings. 2531: A common fixed point theorem for commuting mappings. 5322: Order convergence in linear topological spaces.
- De Matteis, A. 55: (with Falcchini, B.) Some arithmetical properties in connection with pseudo-random numbers.
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- Demin, V. G. 3858: (with Aksenov, E. P. and Grobenikov, E. A.) The generalized problem of motion about two fixed centers and its application to the theory of artificial earth satellites.
- Demkov, Ju. N. 1880: The definition of the symmetry group of a quantum system. The anisotropic oscillator.
- Demkov, Yu. N. = Demkov, Ju. N.
- Dempster, A. P. 1691: On the difficulties inherent in Fisher's fiducial argument. 2609: Stepwise multivariate analysis of variance based on principal variables. 4626: Tests for the equality of two covariance matrices in relation to a best linear discriminant analysis.
- Demulkin, S. P. 5058: On 2-extensions of a local field.
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- Depri, André. 987: (with Broucke, Roger) Régularisation du problème restreint plan des trois corps par représentations conformes.
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- De Santo, Daniel F. 860: (with Keller, Herbert B.) Numerical studies of transition from laminar to turbulent flow over a flat plate.
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- 971: (with Arnowitz, R.) Conditions for flatness in general relativity. 1883: (with Arnowitz, R.) Interaction between gauge vector fields. 1882: (with Boulware, D. G.) "Ambiguity" of harmonic-oscillator commutation relations.
- Deshpande, J. V. 5337: Exact small sample significance points for the non-parametric F-test for problem of several samples.
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- Diego, Antonio. 29: On implicative algebras.
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- Diliberto, S. P. 4216: On stability of linear mechanical systems.
- Dilley, J. 2820: (with Barut, A. O.) Behavior of the scattering amplitude for large angular momentum.
- Dimmock, John O. 140: Representation theory for nonunitary groups. 2881: (with Koster, George F.; Wheeler, Robert G. and Stats, Hermann) ★Properties of the thirty-two point groups.
- Dimovski, I. H. 2715: The relation between yield and load surfaces.
- Dinges, H. 2577: Eine kombinatorische Überlegung und ihre mass-theoretische Erweiterung.
- Dinghas, Alexander. 232: Das Denjoy-Carleman'sche Problem für harmonische Funktionen in \mathbb{R}^n .
- Din' N'e T'ong. 5427: Preclosed mappings and a theorem of A. D. Talmanov.
- Dionisio, J. J. 3907: On the characteristic roots of a matrix.
- Dirac, G. = Dirac, Gabriel Andrew.
- Dirac, G. A. = Dirac, Gabriel Andrew.
- Dirac, Gabriel Andrew. 10: Percy John Heawood. 604: Some results concerning the structure of graphs. 605: Extensions of Turán's theorem on graphs. 2539: On complete graphs and complete stars contained as subgraphs in graphs. 3417: Homomor-
- phism theorems for graphs. 5440: On the structure of 5- and 6-chromatic abstract graphs.
- Diskant, V. I. 526: Bounds for the diameter and width of convex surfaces of bounded Gaussian curvature. 5388: On the minimal number of vertices of a knotted curve.
- Distian, Z. 430: (with Jakimovski, A.) Real inversion and jump formulae for the Laplace transform. I.
- Diu, B. 1910: Mass relations and simple Lie groups of rank 2. 3768: Elementary and composite particles in the Lee model. 5733: (with Rubinstein, H. R.) Incompatibility of the exact and approximate bootstrap conditions in a soluble model.
- Dixmier, Jacques. 1093: Facteurs: classification, dimension, trace. 1084: Anneaux d'opérateurs et représentations des groupes. 1085: Quelques résultats d'Harish-Chandra. I, II. 1086: Fonctions sphériques (d'après R. Godement). 1089: Travaux de Malgrange sur les équations aux dérivées partielles elliptiques. 1090: Travaux de Kadison sur les invariants unitaires. 1091: Solution négative du problème des invariants, d'après Nagata. 4382: Utilisation des facteurs hyperfinis dans la théorie des C^* -algèbres. 3133: (with Cartan, H.; Revuz, A.; Dubreil, P. and Lichnerowicz, A.) ★Problèmes de mesure.
- Dixon, John D. 5119: Normal Sylow subgroups of linear groups. 5120: Complete reducibility of infinite groups.
- Djabali, Mahmoud. 5097: Étude d'un J -anneau noethérien de dimension 2.
- Dnestrovskii, Ju. N. 2875: (with Kostomarov, D. P.) On the stability of a non-homogeneous magneto-active plasma.
- Dobell, A. R. 4662: (with Hull, T. E.) Mixed congruential random number generators for binary machines.
- Dobó, A. 5503: (with Caiszár, I.) A method for the elimination of systematic errors.
- Dobrušin, R. L. 5545: (with Pinsker, M. S. and Širjaev, A. N.) An application of the concept of entropy to signal-detection problems with background noise.
- Dočev, K. 166: Rolle's theorem and its application to real polynomials. 415: Some extremal properties of polynomials. 1277: Some theorems on the geometry of zeros.
- Doctor, Hoshang P. 5017: The categories of Boolean lattices, Boolean rings and Boolean spaces.
- Dokas, Lambros. 3947: Certains complétés des ensembles ordonnés munis d'opérations: Complété de Krasner. 3948: Sur certains complétés des ensembles ordonnés munis d'opérations: Rectifications à mes Notes précédentes.
- Dolbeault, Pierre. 1035: Le théorème de Riemann-Roch sur les surfaces kählériennes compactes (d'après K. Kodaira).
- Dold, Albrecht. 1091: Les foncteurs dérivés d'un foncteur non-additif.
- Dolinskii, É. I. 863: (with Blokhintsev, L. D. and Popov, V. S.) Feynman amplitudes for nonrelativistic processes.
- Dolph, C. L. 4322: (with Minty, G. J.) On nonlinear integral equations of the Hammerstein type.
- Domokos, G. 2827: (with Suranyi, P.) Three-particle states in the relativistic theory of complex angular momentum.
- Doneddu, A. 1106: ★Les bases de l'analyse mathématique moderne.
- Dong, Guang-chang = Tung, Kuang-chang.
- Donoghue, W. F., Jr. 5325: On a theorem of K. Maurin.
- Dorroh, J. R. 1469: Integral equations in normed abelian groups.
- D'Ortenzio, Remo J. 3519: Introductory statistics and sampling concepts applied to radar evaluation.
- Doss, S. A. D. C. 2596: On the efficiency of best asymptotically normal estimates of the Poisson parameter based on singly and doubly truncated or censored samples. 3516: On the efficiency of BAN estimates of the parameters of normal populations based on truncated samples.
- Dostál, Miloš. 3313: Remark on the tensor algebras.
- Dothan, Y. 1906: Unitary parity.
- Douady, Adrien. 1092: Périodicité du groupe unitaire. 1094: Variétés abéliennes. 3435: Variétés à bord anguleux et voisinages tubulaires. 3436: Théorèmes d'isotopie et de recollement. 3437: Arrondissement des arêtes.

- Douglas, Jim, Jr. 4684: (with Gunn, James E.) Alternating direction methods for parabolic systems in m space variables. 3259: (with Cannon, J. R. and Jones, B. Frank, Jr.) Determination of the diffusivity of an isotropic medium. 3545: (with Kellogg, R. B. and Varga, R. S.) Alternating direction iteration methods for n space variables.
- Douglas, Avron. 1787: On calculating weak solutions of quasi-linear, first-order partial differential equations. 5252: (with Agmon, S. and Nirenberg, L.) Estimates near the boundary for solutions of elliptic partial differential equations satisfying general boundary conditions. II.
- Dowker, Yael Naim. 184: (with Lederer, G.) On ergodic measures.
- Downs, B. W. 5696: (with Schenter, R. E.) Target-momentum and nonlocal effects in the high-energy optical potential.
- Doyle, P. H. 5429: A sufficient condition that an arc in S^n be cellular. 5430: (with Warne, R. J.) Some properties of groupoids.
- Dražinskii, A. E. 4126: The Riemann-Privalov boundary-value problem in the class of summable functions.
- Drăgăș, Pavel. 3269: Les équations fonctionnelles et les fonctions presque périodiques.
- Dragilev, A. V. 4185: On non-linear second-order systems.
- Dragonì, Giuseppe Scorza. See Scorza Dragonì, Giuseppe.
- Dragos, Lazăr. 814: Theory of thin airfoils in magnetohydrodynamics. 2759: Théorie des profils minces en magnétoaérodynamique. 3634: L'écoulement d'un gaz conducteur en présence des profils minces.
- Dragos, Lazăr = Dragos, Lazăr.
- Dragt, A. J. 1897: (with Karplus, R.) Poles in coupled scattering amplitudes.
- Drbohlav, Karel. 2165: Concerning congruence relations on commutative semigroups.
- Dreier, H. 5767: Kinetic theory of an electron-photon gas.
- Dreyfus, Stuart E. 4970: (with Elliott, Jarrell R.) An optimal linear feedback guidance scheme. 5884: (with Bryson, A. E., Jr. and Denham, W. F.) Optimal programming problems with inequality constraints. I. Necessary conditions for extremal solutions.
- Drobot, Stefan. 5150: ★Real numbers.
- Dra, Ladislav. 1519: Zur Problematik des Hauptsatzes der zentralen Axonometrie.
- Drummond, I. T. 3707: Singularities of Feynman amplitudes.
- D'Silva, E. 1772: (with Miles, G. A.) The S.S.O.R. iteration scheme for equations with σ_1 ordering.
- Dubey, Satya D. 5543: A simple test function for guarantee time associated with the exponential failure law.
- Dubikajis, L. 154: Groupoide inductif élémentaire et pseudogroupe élémentaire. 4411: Une extension de la notion d'ordre linéaire à celle d'ordre de dimension n .
- Dubinskii, Ju. A. 3323: Some imbedding theorems in Orlicz classes.
- DuBois, D. F. 943: (with Gilinsky, V. and Kivelson, M. G.) Collision damping of plasma oscillations.
- Dubovickii, A. Ja. 3897: (with Miljutin, A. A.) Some optimal problems for linear systems. 5361: (with Miljutin, A. A.) Extremum problems with certain constraints.
- Dubrell, Paul. 2145: ★Algèbre. Tome I: Équivalences, opérations, groupes, anneaux, corps. 3133: (with Cartan, H.; Dixmier, J.; Revuz, A. and Lichnerowicz, A.) ★Problèmes de mesure.
- Duda, Edwin. 1585: A locally compact separable metric space is almost invariant under a closed mapping.
- Duda, R. 5412: On biconnected sets with dispersion points.
- Dudley, R. M. 2436: A property of a class of distributions associated with the Minkowski metric. 5479: Pathological topologies and random walks on abelian groups.
- Duff, G. F. D. 2790: On the principle of superposition in quantum mechanics.
- Duffin, R. J. 1864: The potential energy of an electric charge. 5207: Chrystal's theorem on differential equation systems. 822: (with Hazony, D.) The degree of a rational matrix function.
- Dufour, H. M. 3533: Résolution des systèmes linéaires par la méthode des résidus conjugués.
- Dufresnoy, J. 4264: (with Pisot, Ch.) Sur la relation fonctionnelle $f(x+1) - f(x) = \varphi(x)$.
- Duhovnyi, M. A. 2603: (with Fainštein, E. G.) On the approximation of input functions of linear dynamical $m \times n$ systems with constant parameters.
- Dullemont, C. 4877: Coupled Schrödinger equations and statistical boundary conditions. 1908: (with Macfarlane, A. J. and Sudarshan, E. C. G.) Weyl reflections in the unitary symmetry theory of strong interactions.
- Dumas de Raully, Daniel. 4980: ★Problèmes de mathématiques.
- Dümmel, Siegfried. 2238: Verallgemeinerte Potentiale. I. 2239: Verallgemeinerte Potentiale. II. 2240: Differenzierbarkeit von verallgemeinerten Potentialen. 3171: Ein Satz über die ersten und zweiten partiellen Ableitungen von verallgemeinerten Potentialen.
- Dummett, M. A. E. = Dummett, Michael.
- Dummett, Michael. 1122: The philosophical significance of Gödel's theorem. 27: (with Lemmon, E. J.) Modal logics between S4 and S5.
- Dunford, Nelson. 472: Spectral operators in a direct sum of Hilbert spaces.
- Dunkin, J. W. 3592: (with Eringen, A. C.) On the propagation of waves in an electromagnetic elastic solid.
- Dunton, M. 1160: (with Chowla, P.; Chowla, S. and Lewis, D. J.) Diophantine equations in quadratic number fields.
- Du Plessis, N. 5190: Two counter-examples associated with the Dirichlet problem.
- Dupont, Pascal. 6: Nuove dimostrazioni della formula di Eulero-Savary e suo studio storico. 2272: Procedimenti lagrangiani nell'integrazione dei sistemi di equazioni differenziali lineari nella teoria delle vibrazioni, secondo la critica di Luigi F. Menabrea.
- Dupree, Thomas H. 3820: Kinetic theory of plasma and the electromagnetic field.
- Durand, Émile. 4133: Développement en série du potentiel au voisinage d'une droite indéfinie portant une distribution de charges. 4685: Détermination du paramètre de relaxation dans la méthode de Frankel et Young pour de petites valeurs de la maille.
- Durbin, J. 4654: Trend elimination by moving-average and variate-difference filters.
- Duren, P. L. 199: Distortion in certain conformal mappings of an annulus. 1286: Coefficient estimates for univalent functions. 2204: Corrections to the paper "Distortion in certain conformal mappings of an annulus". 4342: On the spectrum of a Toeplitz operator.
- Durso, John W. 2815: (with Signell, Peter) Regge poles and potentials with cores.
- Duszek, Maria. 2690: (with Sawczuk, Antoni) A note on the interaction of shear and bending in plastic plates.
- Dutari, N. Cuesta. See Cuesta Dutari, N.
- Duthell, Lucette. 2140: Propriétés homologiques de certains anneaux et modules.
- Dutta, Subhas. 1976: Transmission of seismic waves on the transversely isotropic bottom surface of an ocean.
- Dvoretzky, Aryeh. 1533: Some near-sphericity results.
- Dweek, E. E. 3848: A note on the principle of Doppler in a first order pool.
- Dwork, Bernard. 3039: On the zeta function of a hypersurface.
- Dye, H. A. 1275: On groups of measure preserving transformations. II.
- Dyer, James A. 4079: The mean Stieltjes integral representation of a bounded linear transformation.
- Diáfarov, A. S. 244: Inequalities between various weighted norms for entire functions of exponential type. 3162: Some theorems on best approximation of functions by entire functions of finite degree.
- Džanalijs, G. A. 3301: (with Bancuri, R. D.) Equations of convolution type for the semi-axis.
- Diānelidze, G. Ju. 3232: (with Blehman, I. I.) Non-linear problems in the theory of vibro-transportation and vibro-separation.
- Džugaštin, K. E. 3620: Some problems in the theory of the boundary layer of a conducting liquid.
- Diavadvov, M. G. 1396: A mixed problem for a hyperbolic equation with a small parameter multiplying the highest derivatives.
- Džugaštin, K. E. = Džugaštin, K. E.

- Dibuti, R. L. 4796: (with Ratišvili, I. G.) Polarization effects in (α, d) reactions.
- Dziobek, Otto. 983: ★Mathematical theories of planetary motions.
- Dzjalolinskii, I. E. 918: (with Abrikosov, A. A. and Gorkov, L. P.) ★Methods of quantum field theory in statistical physics.
- Džirbaljan, M. M. 2396: (with Neresjan, A. B.) On the structure of certain special biorthogonal systems.
- Džirbaljan, V. A. 4154: On a theorem of Whipple.
- Džuraev, T. D. 368: Some boundary-value problems for an equation of mixed type.
- Džyalošinski, I. E. = Dzjalolinskii, I. E.
- Eastham, M. S. P. 2400: A property of conjugate functions.
- Eaton, J. H. 1049: An on line solution to sampled-data time optimal control. 2899: (with Zadeh, L. A.) An alternation principle for optimal control.
- Ebeling, W. 2668: (with Falkenhagen, H.) Zur kinetischen Theorie schwach ionisierter Plasmen im Magnetfeld.
- Echigo, Marie. 4378: (with Choda, Hisaaki) A new algebraical property of certain von Neumann algebras.
- Eckhaus, Wiktor. 2741: Problèmes non linéaires de stabilité dans un espace à deux dimensions. I. Solutions périodiques. 2742: Problèmes non linéaires de stabilité dans un espace à deux dimensions. II. Stabilité des solutions périodiques.
- Edelbaum, Theodore N. 5864: Theory of maxima and minima.
- Edelen, D. G. B. 2899: On the foundations of relativistic energy mechanics. 4912: Transformation-theoretic problems in variant field theory. I. Fundamentals. 4913: Material momentum-energy tensors and the calculus of variations. 1953: (with Thomas, T. Y.) The dynamics of discontinuity surfaces in general relativity theory. 1984: (with Thomas, T. Y.) On a mechanical interpretation of the null geodesics in static Einstein-Riemann spaces. 1955: (with Thomas, T. Y.) On the characterization of contemporaneous and Born rigid motions and the question of their equivalence.
- Edelstein, Michael. 3402: A remark on a theorem of A. F. Monna.
- Eden, R. J. 3741: Legendre transforms and Khuri representations of scattering amplitudes. 1903: (with Taylor, J. R.) Resonance multiplets and broken symmetry. 4829: (with Taylor, J. R.) Poles and shadow poles in the many-channel S matrix.
- Edge, W. L. 3093: An orthogonal group of order $2^{10} \cdot 3^5 \cdot 7$. 4412: Fundamental figures, in four and six dimensions, over $GF(2)$.
- Edmunds, David E. 1413: Sur l'unicité des solutions d'équations aux dérivées partielles non linéaires.
- Edrei, Albert. 1306: The deficiencies of meromorphic functions of finite lower order.
- Edwards, R. E. 4343: Endomorphisms of function-spaces which leave stable all translation-invariant manifolds. 5346: Convolutions as bilinear and linear operators.
- van Eeden, Constance. 653: The relation between Pitman's asymptotic relative efficiency of two tests and the correlation coefficient between their test statistics. 3505: Note on the consistency of some distribution-free tests for dispersion. 4648: (with Kraft, Charles H.) Bayesian bio-assay.
- Efimov, G. V. 2305: Construction of a local quantum field theory without ultraviolet divergences.
- Efimov, N. V. 1561: Problems of global isometric imbedding.
- Eggan, L. C. 1069: Transition graphs and the star-height of regular events.
- Eggleston, H. G. 4432: Minimal universal covers in E^n .
- Egorov, A. I. 3899: On optimal control of processes in distributed objects.
- Egorov, Ju. V. 1050: Some problems in the theory of optimal control.
- Egorova, A. V. 5813: Results of numerical integration of the equations of motion of an artificial satellite of the Earth.
- ~~Ehlers, Wolfgang. 5904: (with Jordan, Pascual; Kundt, Wolfgang; Sachs, Rainer K. and Trümper, Manfred) Beiträge zur Theorie der Gravitations-Strahlungsfelder. — Stronge Lösungen der Feldgleichungen der allgemeinen Relativitätstheorie. — V.~~
- Ehlich, Hartmut. 4003: Determinantenabschätzungen für binaire Matrizen.
- Ehrenfeld, Sylvain. 655: Some numerical aspects of the use of trans-
- forms in statistics. 2615: Some experimental design problems in attribute life testing.
- Ehresmann, Charles. 1083: Les connexions infinitésimales dans un espace fibré différentiable. 1084: Sur les variétés presque complexes.
- Ehrhart, E. 505: Degré de symétrie d'une surface plane. 4431: Sur le nombre de points à coordonnées entières d'une région convexe plane ou spatiale. 5026: Nombre de points entiers d'un tétraèdre.
- Ehrmann, Hans. 2418: Nichtlineare Integralgleichungen vom Hammersteinischen Typ.
- Eichhorn, Wolfgang. 2324: ★Funktionentheorie in Algebren über dem reellen Zahlkörper und ihre Anwendung auf partielle Differentialgleichungen.
- Eickel, Jürgen. 4146: Glatte starre Holomorphiegebiete vom topologischen Typ der Hyperkugel.
- Éidel'man, S. D. 3263: Boundary-value problems for parabolic systems in a half-space. 4250: (with Ivasišen, S. D.) Continuation of the solution of the Cauchy problem for parabolic systems.
- Éidus, D. M. 1379: Some boundary-value problems in infinite regions.
- Eilenberg, Samuel. 1084: Exposition des théories de Morse et Lusternik-Schnirelmann. 1084: Foncteurs de modules et leurs satellites.
- Einspruch, Norman G. 3581: (with Manning, Robert J.) Third-order elastic moduli of anisotropic solids.
- Elsen, M. 4589: (with Tainiter, M.) Stochastic variations in queuing processes.
- Eisenberg, Edmund. 1536: On cone functions.
- Ekman, G. 2595: On the sum $\sum_{i=1}^n P_i \phi_i$.
- El'cov, A. I. 4438: On the squarability in the Lebesgue sense of a type of ruled surface.
- El Gazy, E. M. 4157: (with Meligy, A. S.) Expansion of the generalized exponential integral in terms of Bessel functions.
- Eliš, Jozef. 3300: Rational functions of a differentiation operator.
- Elin, M. V. 2184: On almost convergent functions.
- Elizarov, V. P. 114: Some properties of quotient rings.
- Ellingsen, Torbjørn. 4724: On periodic motions of an ideal fluid with an elastic boundary.
- Elliott, E. O. 2178: (with Morse, A. P.) General product measures.
- Elliott, Jarrell R. 4970: (with Dreyfus, Stuart E.) An optimal linear feedback guidance scheme.
- Ellison, Bob E. 1678: Two theorems for inferences about the normal distribution with applications in acceptance sampling. 4609: On two-sided tolerance intervals for a normal distribution.
- Elmaghraby, Salah E. 1982: On the dynamic programming approach to the "caterer" problem.
- El'sgol'c, L. É. 2321: (with Myškis, A. D. and Šimanov, S. N.) Stability and oscillations of systems with lag.
- Emel'čev, V. A. 2146: On the algorithmic solvability of certain mass problems in the theory of commutative semigroups.
- Emel'janov, S. V. 2940: (with Taran, V. A.) On the use of inertial sections in designing a certain class of automatic control systems with variable structure. 2941: (with Taran, V. A.) On the use of inertial sections in designing a certain class of automatic control systems with variable structure. II.
- Emel'janov, S. V. = Emel'janov, S. V.
- Emery, V. J. 914: (with Gammel, J. L. and Hopgood, F. R. A.) Ground-state energy and sound velocity of a system of interacting bosons.
- Enatsu, Hiroshi. 1891: Relativistic Hamiltonian formalism in quantum field theory and micro-noncausality.
- Enderlein, R. 3831: A new method in the quantum mechanical transport theory and the dissipation-fluctuation theorem for thermal disturbances.
- Enderston, H. B. 2971: Hierarchies in recursive function theory.
- Endler, Otto. 2110: Ein Lemma über inverse Gruppensysteme. Mit einer Anwendung auf die Verzweigungstheorie. 4044: Über multiplikative Strukturen und eudoxische Hüllen von archimedischen totalgeordneten Gruppen.
- Engel, Wolfgang. 112: Über die Derivationen eines Polynomrings.
- Engelberg, Ora. 4561: Exact and limiting distributions of the number of lead positions in "unconditional" ballot problems.
- Engeler, Erwin. 2974: A reduction-principle for infinite formulas.
- Engeli, Max. 4686: ★Automatisierte Behandlung elliptischer Randwertprobleme.

- Engelking, R. 580: Topological spaces and their compactifications. 4505: Quelques remarques concernant les opérations sur les fonctions semi-continues dans les espaces topologiques. 4504: (with Pelczyński, A.) Remarks on dyadic spaces.
- Engelund, Frank. 2725: Three-dimensional flow in open channels.
- Englert, F. 928: (with Stinchcombe, R. B.; Horwitz, G. and Brout, R.) Thermodynamic behavior of the Heisenberg ferromagnet.
- Englman, Robert. 955: (with Levi, Peretz) The line shape in a harmonic lattice.
- Ennola, Veikko. 143: On the characters of the finite unitary groups. 1177: On the lattice constant of a symmetric convex domain.
- Epe, Rainer. 2251: Charakterisierung des Schilowrandes von Holomorphiegebieten.
- Epshtein, L. A. = Epstein, L. A.
- Epstein, D. B. A. 1605: Ends.
- Epstein, L. A. 1835: Motion of an inclined plate under a free boundary.
- Epstein, Leo F. 4152: (with Hubbell, J. H.) Evaluation of a generalized elliptic-type integral.
- Erber, Thomas. 2261: (with Gordon, Alan) Tabulation of the functions $\partial I_r(z)/\partial v$, $v = \pm \frac{1}{2}$.
- Erdélyi, A. 436: An integral equation involving Legendre's polynomial. 407: (with Wyman, M.) The asymptotic evaluation of certain integrals.
- Erdős, Pál = Erdős, Paul.
- Erdős, Paul. 2070: Quelques problèmes de théorie des nombres. 2536: On a problem in graph theory. 2537: On the number of triangles contained in certain graphs. 4068: On some properties of Hamel bases. 4533: On the structure of linear graphs. 1612: (with Moon, J. W.) On subgraphs of the complete bipartite graph. 5022: (with Surányi, János) ★Selected chapters from number theory. 2182: (with Kestelman, H. and Rogers, C. A.) An intersection property of sets with positive measure.
- Erickson, J. L. 1833: Conservation laws for liquid crystals.
- Eriksson, K. E. 2893: A simple derivation of Schwarzschild's metric. 2894: A unifying principle of interactions?
- Eringen, A. C. 3592: (with Dunkin, J. W.) On the propagation of waves in an electromagnetic elastic solid.
- Ermolaeva, È. N. 5386: On the curvature of curves on a smooth surface at points where the second derivatives fail to exist.
- Erošin, V. A. 5645: (with Poručikov, V. B.) The motion of a cone in a fluid of finite depth.
- Eršov, A. P. 2661: (with Šura-Bura, M. R.) Machine languages and automatic programming.
- Ertel, H. 2726: Sekretention bei exponentiellem Abflussgesetz. 2727: Niveau-Oszillationen in einer Bifurkation.
- Eruğin, N. P. 1349: A problem of A. M. Letov.
- Escher, M. C. 4418: ★The graphic work of M. C. Escher.
- Èskin, G. I. 426: Generalization of the Paley-Wiener-Schwartz theorem. 4319: (with Višik, M. I.) Boundary-value problems for general singular equations in a bounded domain.
- Èskin, L. D. 163: Remarks on Laplace operators on a unimodular group.
- Essén, Mats. 3159: Note on "A theorem on the minimum modulus of entire functions" by Kjellberg.
- van Est, W. T. 4061: (with Korthagen, Th. J.) Non-enlargible Lie algebras.
- Estermann, T. 2076: Note on a paper of A. Rotkiewicz.
- Etayo, José Javier = Etayo Miqueo, José Javier.
- Etayo Miqueo, José Javier. 90: Extension of the concept of linearity in algebraic geometry to an algebraic concept.
- Etherington, I. M. H. 157: Note on quasigroups and trees.
- Ettlinger, Pierre. 2572: Sur les conditions requises pour qu'une variable aléatoire limite X ait même domaine d'attraction que les variables aléatoires de la suite X_i . 2573: Étude sur la compatibilité des conditions requises pour qu'une variable aléatoire limite X ait même domaine d'attraction que les variables aléatoires de la suite X_i . 2574: Étude du domaine d'attraction de la somme de deux variables aléatoires indépendantes quand l'une est du domaine d'attraction de $\varphi_{1,0}$. 2575: Sur l'attraction de $Z = X + Y$ par $\varphi_{2,0+\beta}$, X et Y étant des variables aléatoires indépendantes attirées par $\varphi_{2,0}$ et $\varphi_{2,\beta}$.
- Eustice, D. J. 2402: Summability methods and orthogonal series.
- Evans, David H. 1721: Multiplex sampling.
- Evans, N. T. 4850: A discrete subgroup for higher-symmetry models.
- Evgrafov, M. A. 332: Generalization of the Phragmén-Lindelöf theorems for analytic functions to solutions of different elliptic systems. 1454: A new formula in the operational calculus.
- Ewald, G. 522a: (with Busemann, H. and Shephard, G. C.) Convex bodies and convexity on Grassmann cones. I-IV. 522b: (with Busemann, H. and Shephard, G. C.) Convex bodies and convexity on Grassmann cones. V. Totally convex functionals.
- Ewens, W. J. 4575: The pseudo-transient distribution and its uses in genetics.
- Ewing, George M. 2944: A fundamental problem of navigation in free space.
- Ezawa, Hiroshi. 852: Some examples of the asymptotic field—in the sense of weak convergence. 3098: A note on the Van Hove-Miyatake catastrophe. 4851: (with Muta, Taizo and Umezawa, Hiroomi) An approach to the elementarity of particles.
- Esello, J. O. C. 4180: A boundedness theorem for a differential equation of the third order.
- Èzrohi, T. G. 3150: On a class of functions univalent in the domain $1 < |z| < \infty$.
- Fabius, J. 5524: Asymptotic behavior of Bayes' estimates.
- Fabricius-Bjerre, Fr. 4439: On the double tangents of plane closed curves.
- Faddeev, D. K. 1253: Tables of the fundamental unitary representations of the Fedorov groups. 5059: On the semigroup of genera in the theory of integral representations. 3955: (with Delone, B. N.) ★The theory of irrationalities of the third degree. 1742: (with Faddeeva, V. N.) ★Computational methods of linear algebra. 4659: (with Faddeeva, V. N.) ★Computational methods of linear algebra.
- Faddeev, L. D. 3784: On the separation of self-action and scattering effects in perturbation theory.
- Faddeeva, V. N. 713: Triangular-orthogonal methods for solving the complete eigenvalue problem. 1742: (with Faddeev, D. K.) ★Computational methods of linear algebra. 4659: (with Faddeev, D. K.) ★Computational methods of linear algebra.
- Fain, V. M. 3800: Das Prinzip der Entropiezunahme und die Quantentheorie der Relaxation. 3801: Principle of entropy increase and quantum theory of relaxation.
- Fainstein, È. G. 2003: (with Duhovnyi, M. A.) On the approximation of input functions of linear dynamical $m \times n$ systems with constant parameters.
- Fairlie, D. B. 3697: An inequality in Feynman integrands.
- Faith, Carl. 5077: (with Utumi, Yuzo) Intrinsic extensions of rings.
- Faizibaev, È. F. 4217: On the solution of a type of non-linear differential equation.
- Fajn, V. M. = Fain, V. M.
- Faleschini, B. 55: (with De Matteis, A.) Some arithmetical properties in connection with pseudo-random numbers.
- Falk, David S. 3679: Equivalence of the Brysk approximation and the determinantal method.
- Falk, Harold. 938: Peierls' variational theorem. 2862: Variational property of free-energy perturbation theory. 5094: Erratum: "Variational property of free-energy perturbation theory".
- Falkenhagen, H. 2868: (with Ebeling, W.) Zur kinetischen Theorie schwach ionisierter Plasmen im Magnetfeld.
- Fal'kovič, A. I. 2945: (with Volgin, L. N.) The synthesis of digital data converters with variable programs.
- Fal'kovich, A. I. = Fal'kovič, A. I.
- Fan, Dyk-Tin'. 4361: On functionals which are concentrated on a surface.
- Fan, Ky. 1494: Invariant subspaces of certain linear operators.
- Fan, Liang-tseng. 2948: (with Wang, Chiu-sen) Optimization of one-dimensional multistage processes.
- Fano, U. 4925: Precession equation of a spinning particle in non-uniform fields.
- Faris, J. A. 4986: ★Quantification theory.
- Farnoux, Françoise Combet. See Combet Farnoux, Françoise.

- Farrall, R. H. 692: Asymptotic behavior of expected sample size in certain one sided tests.
- Fatt, I. 1872: (with Selim, M. A. and Somerton, W. H.) Temperature rise in a semi-infinite medium heated by a disc source.
- Faulkner, Frank D. 5865: Direct methods.
- Faure, R. 1354: Sur certains systèmes d'équations différentielles non-linéaires à coefficients périodiques où interviennent de grands et petits paramètres; cas des équations du second ordre. Cas d'exception et forme de limite dans certains d'entre eux.
- Federer, W. = Federer, Walter T.
- Federer, Walter T. 1710: Relationships between a three-way classification disproportionate numbers analysis of variance and several two-way classification and nested analyses. 5533: (with Atkinson, G. F.) Tied-double-change-over designs. 4618: (with Banerjee, K. S.) Estimates of effects for fractional replicates. 5532: (with Zelen, M.) Applications of the calculus for factorial arrangements. II. Two way elimination of heterogeneity.
- Fedilenko, S. I. 2503: (with Černyšenko, V. M.) A generalization of spaces of constant curvature.
- Fedorov, F. I. 3609: (with Boguš, A. A.) Properties of the Duffin-Kummer matrices.
- Fedosev, B. V. 335: Asymptotic formulae for the eigenvalues of the Laplace operator in the case of a polygonal domain.
- Feinberg, G. 3730: (with Pais, A.) A field theory of weak interactions. II.
- Felt, Walter. 5110: Groups which have a faithful representation of degree less than $p-1$.
- Féjes Tóth, Gábor. 5381: Über die Blockierungszahl einer Kreispackung.
- Féjes Tóth, László. 529: Isoperimetric problems concerning tessellations. 4421: What is "discrete geometry"? 1532: (with Coxeter, H. S. M.) The total length of the edges of a non-euclidean polyhedron with triangular faces. 4435: (with Heppes, A.) Über stabile Körpersysteme.
- Fel'dbaum, A. A. = Fel'dbaum, A. A.
- Fel'dbaum, A. A. 4963: (with Bocharov, I. N.) An automatic optimizer for the search for the smallest of several minima (A global optimizer).
- Feldheim, Ervin. 1333: On the positivity of certain sums of ultra-spherical polynomials.
- Feldman, G. 897: (with Matthews, P. T.) Two-field couplings with especial reference to photon-neutral meson interaction.
- Fel'dman, I. A. 443: On the asymptotic behaviour of solutions of certain systems of integral equations.
- Feldman, Jacob. 3478: On the Schrödinger and heat equations for nonnegative potentials.
- Fel'dman, N. I. 2091: Arithmetic properties of the solutions of a transcendental equation.
- Fell, J. M. G. 3114: Weak containment and induced representations of groups. II.
- Feller, William. 4578: On semi-Markov processes.
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- Felscher, Walter. 34: Doppelte Hülleninduktion und ein Satz von Hessenberg und Bourbaki. 2051: Bemerkungen zu einem Lemma von E. Engeler und A. Robinson.
- Fenstad, Jens Erik. 2432: On l -groups of uniformly continuous functions. I. Approximation theory. 3990: An observation on the Gelfand-Mazur theorem.
- Feodos'ev, V. I. = Feodos'ev, V. I.
- Feodos'ev, V. I. 776: On a method of solution of the nonlinear problems of stability of deformable systems. 5629: Application of a step-by-step method to the analysis of stability of a compressed bar.
- Fer, Francis. 3670: (with Andrade e Silva, Joao; Leruste, Philippe and Lochak, Georges) Quantification, stationnarité et non-linéarité.
- Ferguson, James. 5551: Multivariable curve interpolation.
- Ferrarese, Giorgio. 1964: Contributi alla tecnica delle proiezioni in una varietà riemanniana a metrica iperbolica normale.
- Ferretti, B. 3688: On the possibility of a macroscopically causal quantum-relativistic theory.
- Ferwerda, H. A. 848: On a convergent model of quantum electrodynamics.
- Fel'denko, S. F. 5232: (with Škil', N. I.) An error bound for the asymptotic representation of the solutions of a system of linear differential equations containing a parameter.
- Feshbach, H. 1904: Do strange particles obey parastatistics?
- Fet, A. I. 527: Stability theorems for convex, almost spherical surfaces. 3393: Extremal problems for surfaces of bounded Gaussian curvature.
- Few, L. 4436: Multiple packing of spheres.
- Feynman, R. P. 837: (with Vernon, F. L., Jr.) The theory of a general quantum system interacting with a linear dissipative system.
- Feys, Robert. 4985: Logique formalisée et raisonnement juridique.
- Fichera, Gaetano. 729: Numerical approximation for the solution of an atypical boundary value problem. 1636: Teoria assiomatica delle forme armoniche.
- Fiedler, Heinz. 386: Über Bohr-Hardy'sche Faktoren bei Riesz'schen Mitteln.
- Fiedler, Miroslav. 1207: Relations between the diagonal elements of an M -matrix and the inverse matrix. 4004: On inverting partitioned matrices.
- Fields, Jerry L. 256: (with Luke, Yudel L.) Asymptotic expansions of a class of hypergeometric polynomials with respect to the order. II.
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- Filatov, A. N. 271: On the application of Lie series to the problems of non-linear mechanics.
- Fišákov, P. F. 1283: Conformal mapping of given domains by the method of trigonometric interpolation.
- Filippov, A. F. 5260: Continuous dependence of the solution on the boundary conditions and on the right-hand side of the equation.
- Filippov, A. T. 5706: (with Arbuzov, B. A. and Khrustalev, O. A.) On the correlation between the exact solution and the perturbation theory series in the case of Schrödinger equation with singular potential.
- Filippov, I. G. 4749: The theory of linear three-dimensional unsteady problems of diffraction and certain nonlinear problems.
- Finch, P. D. 5498: The limit theorem for aperiodic discrete renewal processes.
- Fine, A. 45: Abstract covering theorems.
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- Finkel'berg, V. M. 3671: (with Berezin, F. A. and Pohil, G. P.) The Schrödinger equation for a system of one-dimensional particles with point interaction.
- Finkel'stein, Ju. Ju. 2919: An iteration method for solving a transportation problem with a supplementary linear restriction and a bound for the number of iterations.
- Finkelstein, R. 896: (with Ramsay, W.) The strong couplings in a space with torsion.
- Finn, Robert. 336: New estimates for equations of minimal surface type. 4235: On partial differential equations (whose solutions admit no isolated singularities).
- Finzi, Arrigo. 4914: On the hypothesis of the variation of the gravitational constant, and on some of its consequences.
- Firey, William J. 4428: Some applications of means of convex bodies.
- Fischer, Bernd. 4055: Distributive Quasigruppen endlicher Ordnung.
- Fischer, H. R. 3314: Über eine Klasse topologischer Tensorprodukte.
- Fischer, J. 5731: Scattering of pions on pions in threshold region.
- Fishback, W. T. 2471: ★Projective and Euclidean geometry.
- Fisbel, B. 5159: A structure related to the theory of integration.
- Fisher, F. Peter. 5582: (with Swindle, George F.) ★Computer programming systems.
- Fisher, G. R. 4633: Iterative solutions and heteroscedasticity in regression analysis.
- Fisher, Michael E. 4558: Magnetism in one-dimensional systems. The Heisenberg model for infinite spin. 1928: (with Stephenson, John) Statistical mechanics of dimers on a plane lattice. II. Dimer correlations and monomers.
- Fivel, Daniel I. 4828: (with Brown, Lowell; Lee, Benjamin W. and Sawyer, Raymond F.) Fredholm method in potential scattering and applications to complex angular momentum.
- Fix, Evelyn. 2600: (with Barton, D. E. and David, F. N.) Persistence in a chain of multiple events when there is simple dependence.
- Flachsmeyer, Jürgen. 4506: Topologische Projektivräume.

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- Flament, Claude. 1014: ★Applications of graph theory to group structure.
- Flammer, Carson. 1324: ★Tables of spheroidal wave functions.
- Flanders, Harley. 5397: ★Differential forms with applications to the physical sciences.
- Flatto, Leopold. 1314: Functions with a mean value property. II.
- Flavin, J. N. 5632: Surface waves in pre-stressed Mooney material.
- Flegg, H. Graham. 3902: ★Boolean algebra and its application, including Boolean matrix algebra.
- Fleischer, Isidore. 1130: Elementary properties of inductive limits.
- Fleischman, O. 1892: Gauge invariance, the vertex function, and the magnitude of the renormalization constants of quantum electrodynamics.
- Fleishman, B. A. 5887: The approximate determination of periodic regimes in systems containing relay elements with dead zones.
- Fleming, Wendell H. 499: On the oriented Plateau problem.
- Flemming, Manfred. 5624: Die matrizielle Berechnung von Querschnittswerten und Einheitsspannungen bei beliebiger Querschnittsform.
- Fletcher, N. H. 3830: Crystal interfaces.
- Flodmark, Stig. 1935: Theory of symmetry projections in applied quantum mechanics.
- Flor, Peter. 1447: "Fastperiodische" Folgen, die nur endlich viele verschiedene Werte annehmen. 5296: (with Helmsberg, Gilbert) Zur definition der Verteilungsfunktion einer reellwertigen Funktion.
- Florczak, J. 4865: (with Tietz, T.) Atomic energy levels and eigenfunctions for the atomic field.
- Florek, K. 37: On the evaluation from below of extremal determinants.
- Florence, A. L. 3607: (with Goodier, J. N.) The linear thermoelastic problem of uniform heat flow disturbed by a penny-shaped insulated crack.
- Florian, A. 3369: (with Bóroczky, K.) Über die dichteste Kugelpackung im hyperbolischen Raum.
- Foata, Dominique. 2057: Sur un énoncé de MacMahon.
- Fock, V. = Fok, V. A.
- von Foerster, H. 1017: (with Ashby, W. R. and Walker, C. C.) Instability of pulse activity in a net with threshold.
- Fogels, E. 67: Über die Ausnahmestelle der Hecke'schen L -Funktionen. 5053: On the distribution of prime ideals.
- Foguel, S. R. 636: Strongly continuous Markov processes.
- Foht, A. S. 2324: A boundary estimate for the solution of an equation of elliptic type of arbitrary order with variable coefficients where a number of the coefficients are degenerate on the boundary.
- Fok, V. A. 5784: ★The theory of space, time and gravitation. 5818: The researches of A. A. Fridman on the Einstein theory of gravitation.
- Foland, N. E. 301: The structure of the orbits and their limit sets in continuous flows. 3412: (with Utz, W. R.) The embedding of discrete flows in continuous flows.
- Foldy, Leslie L. 846: (with Peierls, Ronald F.) Isotopic spin of exchanged systems.
- Folks, John Leroy. 2613: (with Johnson, Charles Henry) A property of the method of steepest ascent.
- Fomenko, O. M. 2096: Estimates of Petersson's inner product with an application to the theory of quaternary quadratic forms. 2097: Fourier coefficients of Poincaré series of dimension -2 .
- Fomenko, V. T. 563: (with Barhin, G. S.) On the bending of surfaces of positive curvature with boundary.
- Fomin, P. I. 849: (with Guzenko, S. Ya.) Asymptotic behavior of the vertex function in the "single logarithmic" approximation.
- Fomin, S. V. 3332: (with Gel'fand, I. M.) ★Variational calculus. 3353: (with Gelfand, I. M.) ★Calculus of variations.
- Fonda, Luciano. 5693: (with Ghirardi, Gian Carlo) Properties of the bound states embedded in the continuum. 4852: (with Ghirardi, G. C. and Rimini, A.) Interpretation of the normalizable state in the Lee model with form factor.
- Fong, R. 3703: (with Sucher, J.) Relativistic particle dynamics and the S matrix.
- Ford, L. R., Jr. 2917: (with Fulkerson, D. R.) ★Flows in networks.
- Ford, William F. 4797: Anomalous behavior of the Coulomb T matrix.
- Forelli, Frank. 429: Analytic measures.
- Forrington, C. V. D. 4687: A Fourier series method for the numerical solution of a class of parabolic partial differential equations.
- Forster, Otto. 2254: Eine Bemerkung über Rungesche Paare.
- Förster, W. 3573: Biorthonormierte Funktionen zur Lösung allgemeiner Randwertaufgaben der Elastizitätstheorie.
- Fort, Jacques. 2985: Éléments injectifs (ou compléments) dans les treillis modulaires. 2986: Éléments Γ -isotypiques dans les \mathcal{F} -algèbres modulaires.
- Fort, M. K., Jr. 2528: A wild sphere which can be pierced at each point by a straight line segment.
- Forte, Bruno. 2860: (with Braccini, Maria Grazia) Sur le principe de l'équipartition de l'énergie dans la théorie statistique des milieux continus.
- Fortet, R. 3877: La circulation des voitures sur une route ou dans les artères d'une ville, à partir des lois de l'hydraulique.
- Fowler, Earle Cabell. 2840: (with Adair, Robert Kemp) ★Strange particles.
- Fox, C. 1451: Matrix integral transforms.
- Fox, David W. 3664: (with Bazley, Norman W.) Error bounds for expectation values.
- Fox, Herbert. 5654: (with Libby, Paul A.) Some perturbation solutions in laminar boundary-layer theory. I. The momentum equation.
- Fox, N. 3606: Stresses associated with a moving line source of heat.
- Fox, William C. 5173: Erratum to "A new inequality for the Green's function".
- Foy, Linus Richard. 2354: Steady state solutions of hyperbolic systems of conservation laws with viscosity terms.
- Fraboul, François. 5356: Stabilisation d'une méthode d'intégration numérique des systèmes différentiels.
- France, Michel Mondès. See Mondès France, Michel.
- Frank, L. S. 2345: On a Cauchy problem for equations with variable coefficients which is not of Kovalevsky type.
- Frank, Wilhelm. 1048: Das Maximumprinzip von Pontrjagin und dessen Anwendung auf die Optimierung von Regelungen.
- Frank, William M. 4812: Convergence of Yukawa theories with a finite number of interacting boson modes.
- Franken, Peter. 3403: Approximation durch Poisson'sche Prozesse.
- Frankl', F. I. 805: An existence theorem for a weak solution and first approximation of the direct problem in the theory of the plane-parallel Laval nozzle.
- Frasnay, Claude. 1141: Quelques théorèmes combinatoires faisant intervenir un ordre total. 1142: Groupes finis de permutations et familles d'ordres totaux; application à la théorie des relations.
- Frautschi, Steven C. 1900: ★Regge poles and S -matrix theory. 5738: (with Kaus, P. E. and Zachariasen, F.) Method for the self-consistent determination of Regge pole parameters.
- Fréchet, Maurice. 5449: Une remarque d'ordre historique sur le classement des probabilités nulles (ou de la raréfaction). 5450: Les probabilités nulles et la raréfaction.
- Freedman, David A. 1658: Determining the time scale of a Markov chain. 1706: On the asymptotic behavior of Bayes' estimates in the discrete case. 2568: L'urne de Bernard Friedman.
- Freeman, David. 1707: (with Weiss, Lionel) Sampling plans which approximately minimize the maximum expected sample size.
- Freeman, Robert S. 1318: Closed extensions of the Laplace operator determined by a general class of boundary conditions, for unbounded regions.
- Frenkin, A. R. 1893: Green's functions in the theory of strong coupling.
- Freud, G. 421: (with Knapowski, S.) On linear processes of approximation. I.
- Freund, P. G. O. 876: (with Oehme, R.) Vector mesons as Regge poles in perturbation theory.
- Friberg, Jöran. 349: Estimates for partially hypoelliptic differential operators.
- Fried, H. M. 4847: Crossed graphs in the Feinberg-Pais theory of weak interactions.
- Friedman, Avner. 1458: On integral equations of Volterra type. 5255: Entire solutions of partial differential equations with constant coefficients. 1396: (with Littman, Walter) Partially characteristic boundary problems for hyperbolic equations.
- Frieman, Edward A. 3791: On a new method in the theory of irreversible processes. 3821: (with Book, D. L.) Convergent classical

- kinetic equation for a plasma. 933: (with Bodner, S. and Rutherford, P.) Some new results on the quasi-linear theory of plasma instabilities. 934: (with McCune, J. E. and Sandri, G.) A new approach to nonequilibrium statistical mechanics of gases.
- Frish, H. L. 2384: (with Hammersley, J. M.) Percolation processes and related topics.
- Fritzsche, Reiner. 231: ★Beitrag zur Theorie der Modulfunktionen 2. Grades. 3156: Beitrag zur Theorie der Modulfunktionen 2. Grades.
- Froese, Charlotte. 1790: Numerical solution of the Hartree-Fock equations.
- Fröhlich, A. 2142: Baer-invariants of algebras. 3988: †The module structure of Kummer extensions over Dedekind domains.
- Fröhlich, H. 2838: On isobaric spin space.
- Froimart, M. 1902: (with Omnès, R.) ★Mandelstam theory and Regge poles: An introduction for experimentalists.
- Frolík, Zdeněk. 5414: On the descriptive theory of sets. 5415: On bianalytic spaces.
- Frolov, G. V. 3743: Perturbation theory and fermion Regge poles in electrodynamics. 3742: (with Gorahkov, V. G.) Asymptotic relations between cross sections for large angle scattering.
- Frolov, K. V. 5599: The simulation of resonance properties of certain autonomous non-linear oscillatory systems.
- Fronsdal, C. 3716: (with Norton, R. E.) Integral representations for vertex functions.
- Fubini, S. 3719: (with Bastai, A.; Bertocchi, L.; Furlan, G. and Tonin, M.) On the treatment of singular Bethe-Salpeter equations.
- Fuchs, B. A. = Fuks, B. A.
- Fuchs, W. H. J. 3149: Proof of a conjecture of G. Pólya concerning gap series.
- Fufae, V. V. 4094: Conformal mappings of domains with corners and differential properties of solutions of the Poisson equation in domains with corners.
- Fuglede, Bent. 2241: On generalized potentials of functions in the Lebesgue classes. 2242: Capacitabilité des ensembles sousliniens en théorie du potentiel.
- Fujii, Masatomo. 4671: Remarks to accelerated iterative processes for numerical solution of equations.
- Fuji's'e, Tatsuo. 1290: On weak boundary components of a Riemann surface.
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- Fujisawa, Takehisa. 643: On a waiting-line process with a particular bulk-service. 644: On a queueing process with queue-length dependent service.
- Fujita, Reiko. 2252: Domaines sans point critique intérieur sur l'espace projectif complexe.
- Fujita, S. 3799: On the generalized Boltzmann equation of a quantum gas. II. 4685: Remarks on Kubo's formula and on Kadanoff-Baym's equations. 3836: (with Mayné, F.) Theory of transport coefficients. IV. Electrical conductivity in the presence of a strong magnetic field.
- Fujiwara, I. 5596: New aspects in classical dynamics. IV, V. 5597: Correspondence principle and functional integration method in quantum mechanics. I-X. 5595: (with Hemmer, P. Chr.) New aspects in classical dynamics. I, II, III.
- Fuks, B. A. 189: (with Šabat, B. V.) Functions of a complex variable. 4087: (with Šabat, B. V.) ★Functions of a complex variable and some of their applications. Vol. I.
- Fulkerson, D. R. 2917: (with Ford, L. R., Jr.) ★Flows in networks.
- Fulks, W. 5249: An approximate Gauss mean value theorem.
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- Funtikov, V. N. 1343: Eigenfunction expansion of a non-selfadjoint differential operator of arbitrary even order on $[0, \infty]$.
- Fur, Bernard Le. See Le Fur, Bernard.
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- Fürst, Dario. 5924: Su un problema di ottimo in un caso di prenotazione di posti.
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- Fuster, Rafael Aguiló. See Aguiló Fuster, Rafael.
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- Gabisonija, O. D. 1436: A bound for the total best approximation of a function of several variables by partial best approximations.
- Gabriel, Pierre. 1094: Faisceaux quasi-cohérents. 1094: Les foncteurs dérivés des foncteurs classiques. 1094: Le théorème de Serre.
- Gečok, V. P. 5712: Models of relativistic field theory and the Mandelstam representation.
- Gaede, Karl-Walter. 733: Über die Lösung linearer Integralgleichungen mit einer elektronischen Analogierechenanlage.
- Gaeta, Federico. 91: On a new tensorial algorithm replacing the elimination theory. 1248: Integral geometry and group representation.
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- Galer, Dieter. 4095: Konforme Abbildung mehrfach zusammenhängender Gebiete durch direkte Lösung von Extremalproblemen.
- Gaifman, Haim. 5156: Concerning measures on Boolean algebras.
- Galinov, A. T. 3067: Binary Lie algebras of lower ranks. 3068: Alternative algebras of rank 3 and 4.
- Gajewski, Tomasz. 843: On the conditions of applicability of the quasi-classical approximation in quantum mechanical scattering problems.
- Galanter, Eugene. 1015: (with Luce, R. Duncan and Bush, Robert R., co-editors) ★Handbook of mathematical psychology. Vol. I, Chapters 1-8. 1016: (with Luce, R. Duncan and Bush, Robert R., co-editors) ★Handbook of mathematical psychology. Vol. II, Chapters 9-14.
- Galasiewicz, Zygmunt. 2853: Stability conditions for Fermion systems.
- Galburā, Gh. 88: Algebraic function fields and algebraic varieties.
- Gale, David. 515: On Lipschitzian mappings of convex bodies. 516: On the number of faces of a convex polytope.
- Galfajan, P. O. 2687: The bending of a fixed rectangular beam.
- Galindo, A. 1886: Some myriotic paraboson fields. 4813: (with Pascual, P.) Some remarks on the relativistic wave equations.
- Galjarskii, E. I. 4034: (with Zamorzaev, A. M.) Similarity symmetric and antisymmetric groups.
- Gallagher, A. P. 3622: (with Mercer, A. McD.) On the behaviour of small disturbances in plane Couette flow. II. The higher eigenvalues.
- Gallagher, P. 1167: Metric simultaneous diophantine approximation.
- Gallone, S. 4902: (with Ghilardotti, G.) On the use of Case's general solution of the transport equation in neutron transport problems.
- Gal'pern, S. A. 4237: (with Kondrašov, V. E.) The Cauchy problem for a differential operator decomposing into wave factors.
- Galustjan, S. B. 3587: Solution of a problem on singular transverse vibrations of a rod of variable cross-section by means of the generalized Green's function.
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- Galyarskii, E. I. = Galjarskii, E. I.
- Gambhir, R. S. 2571: (with Saxena, S. C.) Translational thermal conductivity and viscosity of multicomponent gas mixtures.
- Gamelin, T. W. 5331: Restrictions of subspaces of $C(X)$.
- Gamkrelidze, R. V. 1053: (with Pontrjagin, L. S.; Boltjanskii, V. G. and Miščenko, E. F.) The mathematical theory of optimal processes.
- Gammel, J. L. 914: (with Emery, V. J. and Hoggood, F. R. A.) Ground-state energy and sound velocity of a system of interacting bosons.
- Gandhi, J. M. 2916: (with Bakore, P. V.) A note on gravitational instability.
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- Garber, E. D. 2009: Error estimation in the describing function method.
- Garczynski, W. 5725: The necessary and sufficient condition in terms of Wightman functions for a field to be a generalized free field.
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- Gelig, A. H. 2346: Stability of the solutions of the Cauchy problem for symmetric systems of partial differential equations.
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- Gil de Lamadrid, Jesús. 3306: Complementation of manifolds in topological vector spaces. 5353: Uniform cross norms and tensor products of Banach algebras.
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- Gill, Arthur. 2027: Time-varying sequential machines.
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- Gilmer, Robert W. 2120: Rings in which semi-primary ideals are primary. 3051: (with Ohm, Jack) Integral domains with quotient overrings.
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- Gindikin, S. G. 1636: (with Vinberg, E. B. and Pjateckiĭ-Sapiro, I. I.) Classification and canonical realization of complex homogeneous bounded domains.
- Ginibre, J. 1907: Perturbation expansion within unitary symmetry.
- Ginsberg, F. 5266: On the Cauchy problem for the one-dimensional heat equation.
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- Gloden, R.-F. 3529a: ★Recherche de la meilleure approximation pour l'évaluation d'une fonction donnée. Approximation polynomiale au sens de Tchebycheff, développement asymptotique et application aux fonctions de Bessel. 3529b: ★Approximation des fonctions de Bessel. Optimisation des programmes correspondants.
- Gluck, Herman. 1603: Rotational symmetry of 3-manifolds. 3411: Homogeneity of certain manifolds. 1608a: (with Brown, Morton) Stable structures on manifolds. I. Homeomorphisms of S^n . 1608b: (with Brown, Morton) Stable structures on manifolds. II. Stable manifolds. 1608c: (with Brown, Morton) Stable structures on manifolds. III. Applications.
- Gluskov, V. M. = Glukov, V. M.
- Glukov, V. M. 2030: The abstract theory of automata. I. 3904: ★The design of numerical automata.
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 Gradshteyn, I. S. 1326: (with Ryzhik, I. M.) ★Summen-, Produkt- und Integral-Tafeln. 5198: (with Ryzhik, I. M.) ★Tables of integrals, sums, series and products.
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 Gray, K. B. 5547: The application of stochastic approximation to the optimization of random circuits.
 Gray, William J. 5424: On the metrizable of invertible spaces.
 Graybill, Franklin A. 1688: (with Connell, Terrence L.) Sample size required for estimating the variance within d units of the true value. 4621: (with Connell, Terrence L.) Sample size required to estimate the parameter in the uniform density within d units of the true value.
 Greathouse, Charles. 4526: Locally flat strings.
 Grebenikov, E. A. 3858: (with Aksonov, E. P. and Demin, V. G.) The generalized problem of motion about two fixed centers and its application to the theory of artificial earth satellites.
 Grebenjuk, D. G. 5280: ★Polynomials of best approximation with linearly related coefficients.
 Green, A. E. 1863: (with Adkins, J. E.) A contribution to the theory of non-linear diffusion.
 Green, Anthony M. 3770: (with Greiner, Walter) Nuclear bremsstrahlung.
 Green, M. S. 1925: (with Picciorelli, R. A.) Basis of the functional assumption in the theory of the Boltzmann equation.
 Green, W. A. 4715: The growth of plane discontinuities propagating into a homogeneously deformed elastic material.
 Greenberg, B. G. 678b: (with Sarhan, A. E. and Ogawa, Junjiro) Simplified estimates for the exponential distribution.
 Greenberg, H. J. 3546: Extended initial-value problems and their numerical solution.
 Greenberg, Marvin J. 98: Schemata over local rings. II. 3040: Algebraic rings.
 Greenberger, Daniel M. 3754: The scale transformation in physics.
 Greindlinger, Martin. 3080: Solutions of the word problem for a class of groups by Dehn's algorithm and of the conjugacy problem by a generalization of Dehn's algorithm.
 Greenspan, Donald. 5569: On the numerical solution of problems allowing mixed boundary conditions.
 Greenspan, H. P. 2737: (with Howard, L. N.) On a time-dependent motion of a rotating fluid.
 Greenwood, J. A. 771: The elastic stresses produced in the mid-plane of a slab by pressures applied symmetrically at its surface.
 Greguš, Michal. 4177: Oscillatory properties of solutions of a third-order differential equation of the type $y'' + 2A(x)y' + [A'(x) + b(x)]y = 0$. 4178: Über einige Eigenschaften der Lösungen der Differentialgleichung dritter Ordnung. 4179: Über einige Randwertprobleme dritter Ordnung.
 Greibach, Sheila A. 3886: The undecidability of the ambiguity problem for minimal linear grammars.
 Greiner, Walter. 3770: (with Green, Anthony M.) Nuclear bremsstrahlung.
 Grepačevskaja, L. V. 4281: On absolute summability by the methods of Cesàro, Riesz and Zygmund.
 Greub, Werner H. 1201: ★Linear algebra.
 Grihanov, Ju. I. 2628: On the problem of convergence of the reduction method for infinite systems of linear equations. 1484: (with Belobrov, P. K.) On a class of Banach spaces of functions.
 Griffin, D. S. 3544: (with Varga, R. S.) Numerical solution of plane elasticity problems.
 Griffith, J. S. 1918: On the stability of brain-like structures.
 Griffith, James L. 432: On Mellin transforms of functions analytic in the neighbourhood of the origin.
 Griffiths, H. B. 2530: Automorphisms of a 3-dimensional handlebody.
 Griffiths, Phillip A. 4555: Deformations of holomorphic mappings. 5447: On the differential geometry of homogeneous vector bundles.
 Grigelionis, B. 1647: Sharpening of a higher-dimensional limit theorem on convergence to the Poisson law. 4595: On the degree of approximation of the composition of renewal processes by a Poisson process.
 Griseisen, Gerhard. 1584: Das Produkt topologischer Räume in einer Theorie der Limesräume.
 Grinberg, E. Ja. 4760: On the determination of the properties of certain potential fields.
 Grindlinger, E. I. 3079: The word problem for a class of semigroups with a finite number of defining relations.
 Grindlinger, Martin = Greindlinger, Martin.
 Grisvard, P. 3318: Espaces intermédiaires entre espaces de Sobolev avec poids.
 Gröbner, Wolfgang. 2642: Über die Lösung von nichtlinearen Differentialgleichungssystemen mit Randbedingungen.
 Grobov, V. A. 3566: Non-linear problems of turbine rotor dynamics.
 G.-Rodeja, F., E. 4420: Representations over quadrics. 5068: Irrelevant ideals in the cohomology theory of algebraic varieties.
 Groemer, Helmut. 4433: Über die Zerlegung eines konvexen Körpers in homothetische konvexe Körper.
 Gromov, V. P. 1310: Completeness of systems of analytic functions in a domain.
 Gromyko, V. P. 136: Finite groups for which the number of different prime π -divisors of the order is equal to the number of classes of non-invariant conjugate π -subgroups. 1233: Some theorems on finite groups with a given number of classes of non-invariant conjugate π -subgroups.

- Gronskii, V. K. 3694: Scattering of a polarized particle with a spin $3/2$ Coulomb center.
- de Groot, J. 2520: Subcompactness and the Baire category theorem.
- Grosch, Chester E. 3626: (with Salwen, Harold and Ziering, Sigi) Extension of the Mott-Smith method for a one-dimensional shock wave.
- Gross, Leonard. 4304: Harmonic analysis on Hilbert space.
- Gross, M. 3885: Linguistique mathématique et langages de programmation.
- Gross, O. 5941: The rendezvous value of a metric space.
- Grossmann, Siegfried. 3789: Occupation number representation with localized one particle functions. (Macroscopic description of quantum gases. I.)
- Grossmann, Zvi. 1876: (with Peres, Asher) Classical theory of the Dirac electron.
- Grosswald, E. 64: Negative discriminants of binary quadratic forms with one class in each genus.
- Grothendieck, A. 1086: Produits tensoriels topologiques et espaces nucléaires. 1087: La théorie de Fredholm. 1088: Réarrangements de fonctions et inégalités de convexité dans les algèbres de von Neumann, munies d'une trace. 1090: Sur le mémoire de Weil: "Généralisation des fonctions abéliennes". 1090: Théorèmes de dualité pour les faisceaux algébriques cohérents. 1091: Géométrie formelle et géométrie algébrique.
- Grudo, E. I. 2254: Construction of zero-order solutions of first-order differential equations. 3189: Construction of solutions of order $\nu=0$ of first-order differential equations.
- Gruenberg, Karl. 3097: The residual nilpotence of certain presentations of finite groups.
- Grünbaum, Branko. 2460: Strictly antipodal sets. 3367: Fixing systems and inner illumination. 5376: Common secants for families of polyhedra. 2479: (with Motzkin, Theodore S.) On components in some families of sets. 524: (with Danzer, Ludwig and Klee, Victor) Helly's theorem and its relatives.
- Grunsky, Helmut. 4165: Über die Umkehrung eines linearen Differentialoperators zweiter Ordnung im Komplexen.
- Grušin, V. V. 346: On Sommerfeld-type conditions for a certain class of partial differential equations.
- Grynberg, M. 3750: (with Koba, Z.) Four-pion wave functions.
- Grzegorzczak, A. 3925: A note on the theory of propositional types. 3926: Recursive objects in all finite types.
- Gu, Chao-hao = Ku, Chao-Hao.
- Gu, Chao-hao = Ku, Chao-Hao.
- Guan, Mei-gu = Kwan, Mei-ko.
- Guay, M. D. 5428: (with Hocking, J. G. and Kronk, H. V.) Local near-homogeneity.
- Gubar, I. G. 198: An analytic variant of Melent'ev's method.
- Guber, Siegfried. 4345: Massentheoretische Kennzeichnung gewisser Funktionenkegel.
- Guderley, Karl Gottfried. 1370: On perturbations of similarity solutions.
- Gudiev, A. H. 459: The classes $L_{(p_1, p_2, \dots, p_n)}(\Omega_n)$ and an imbedding theorem for abstract set functions.
- Gudmundsson, Roland. 864: The analytic and boundedness properties of a three point function in a quantum electrodynamics like model.
- Guelfand, I. M. = Gel'fand, I. M.
- Guelfond, A. O. = Gel'fond, A. O.
- Gufnault, A. M. 4693: (with MacDonald, D. K. C.) Non-linear Brownian movement of a generalized Rayleigh model. II. Extension of the model to include 'sticky' collisions.
- Guenin, M. 2801: (with Misra, B.) On the von Neumann algebras generated by field operators.
- Guenther, William C. 4612: A generalization of the integral of the circular coverage function. 2623: (with Terragno, Paul J.) A review of the literature on a class of coverage problems.
- Guérin, R. 1139: (with Barra, J. R.) Utilisation pratique de la méthode de Yamamoto pour la construction systématique de carrés gréco-latins. 1138: (with Barra, J. R. J.) Extension des carrés gréco-latins cycliques.
- Guglielmino, Francesco. 357a: Sulla regolarizzazione delle soluzioni deboli dei problemi al contorno per operatori parabolici. 357b: Ulteriori contributi alla regolarizzazione delle soluzioni deboli dei problemi parabolici.
- Guinay, S. 1297: Fonctions complexes sur une surface quelconque.
- Guichardet, Alain. 186: Sur la décomposition des mesures quasi-invariantes en mesures ergodiques. 2455: Sur la décomposition des représentations des C^* -algèbres.
- Guillaume, Marcel. 2973: Sur les structures hilbertiennes polyadiques.
- Guillemot-Teissier, Marianne. 4059: Convolution des courants sur un groupe de Lie.
- Guilleraut, M. 1785: Stabilité et convergence d'approximation aux différences finies pour des problèmes linéaires aux dérivées partielles.
- Guiraud, Jean-Pierre. 2752: Sur la valeur de l'intensité, au voisinage d'une caustique, du bruit balistique produit par le vol supersonique. 3816: Théorie cinétique des phénomènes de dissipation dans les mélanges de gaz; application au calcul des coefficients de dissipation par une méthode simplifiée.
- Guittet, Jack. 1749: Une remarque sur les normes de matrices; application aux méthodes de directions alternées à deux dimensions avec opérateur de perturbation. 4669: Méthodes de directions alternées à n dimensions avec opérateur de perturbation.
- Gumbel, E. J. 1674: Bivariate logistic distributions.
- Gumowski, Igor. 2319: Sur le calcul des solutions périodiques d'une équation différentielle-fonctionnelle d'ordre 1.
- Gundersen, Roy M. 2771: Quasi-one-dimensional magnetohydrodynamic flow with heat addition. 2772: Secondary shocks in magnetohydrodynamic channel flows. 5673: Entropy perturbations in one-dimensional magnetohydrodynamic flow.
- Gundlach, Karl-Bernhard. 2957: (with von Soden, Wolfram) Einige altbabylonische Texte zur Lösung "quadratischer Gleichungen".
- Gunn, James E. 4684: (with Douglas, Jim, Jr.) Alternating direction methods for parabolic systems in m space variables.
- Günther, Marian. 2806: Separation of angular variables in the Bethe-Salpeter equation for two spin- $\frac{1}{2}$ particles.
- Guo, Zhong-Heng. 760: (with Urbanowski, Wojciech) Stability of non-conservative systems in the theory of elasticity of finite deformations.
- Guo, Zhu-rui = Guo, Zhu-rui.
- Guo, Zhu-rui. 422a: Approximation of a continuous function by Cesàro means of its Fourier series. 422b: The approximation of a continuous function by the Cesàro means of its Fourier series.
- Gupta, Bandana. 4478: On projective-symmetric spaces.
- Gupta, Hansraj. 58: An inequality for $P(N, k)$. 5023: A congruence property of Euler's ϕ -function.
- Gupta, R. C. = Gupta, R. K.
- Gupta, R. K. 5671: Magneto hydrodynamic flow of a viscous fluid past axisymmetric bodies. 2757: (with Kapur, J. N.) Two dimensional flow of power law fluids in the inlet length of a straight channel. 5652: (with Kapur, J. N.) Flow of Reiner-Rivlin fluids in the inlet region of a channel.
- Gupta, S. C. 2002: (with Hasdorff, L.) Changing the state of a linear system by use of normal function and its derivatives.
- Gupta, S. Das. See Das Gupta, S.
- Gupta, S. K. 5484: (with Goyal, J. K.) Queues with Poisson input and hyper-exponential output with finite waiting space. 5495: (with Goyal, J. K.) Queues with hyper-Poisson input and exponential output with finite waiting space.
- Gupta, Shanti S. 690: On a selection and ranking procedure for gamma populations. 3513: (with Sobel, Milton) On selecting a subset containing the population with the smallest variance. 3514: (with Sobel, Milton) On the smallest of several correlated F statistics.
- Gurevič, A. V. 3822: Smearing out of inhomogeneities in a weakly ionized plasma in a magnetic field (ambipolar diffusion).
- Gurevič, G. B. 1217: On metabelian Lie algebras.
- Gurevič, Ju. Š. 5004: Elementary properties of ordered Abelian groups.
- Gurevich, A. V. = Gurevič, A. V.
- Gürsey, Feza. 2902: Reformulation of general relativity in accordance with Mach's Principle.
- Gurtin, M. E. 2713: (with Sternberg, E.) Uniqueness in the theory of thermo-rheologically simple ablating viscoelastic solids. 779: (with Sternberg, Eli) A reciprocal theorem in the linear theory of anisotropic viscoelastic solids. 2671: (with Sternberg, Eli) On the

- completeness of certain stress functions in the linear theory of elasticity.
- Guseinov, A. I. 4323: (with Muhtarov, H. S.) Investigation of a class of non-linear singular integral equations with Cauchy kernel and vanishing on annuli.
- Gusev, L. A. 1058: (with Aizerman, M. A.; Rozonoër, L. I.; Smirnova, I. M. and Tal', A. A.) Clock conversion in sequential machines and the synthesis of relay networks.
- Gutenmacher, L. I. 1796: ★Electronic information-logic machines.
- Gutenmacher, L. I. = Gutenmacher, L. I.
- Gutiérrez Suárez, Juan José. 431: Characterization of functions representable by integral transforms with a Whittaker kernel. 2411: Characterization of functions representable by integral transforms with a Whittaker kernel. II. 5303: Characterization of functions representable by integral transforms with a Whittaker kernel.
- Gutin, L. Ja. 3590: The radiation into an elastic medium from a piston vibrating in an infinite elastic screen.
- Gutin, L. Ya. = Gutin, L. Ja.
- Gutman, Irwin. 4637: (with Csorgo, M.) On the consistency of the two-sample empty cell test. 4647: (with Tiao, George C.) A Bayesian approach to some best population problems. 5513: (with Tiao, George C.) Some useful matrix lemmas in statistical estimation theory.
- Guy, Jean. 5753: (with Didry, Jean-René and Cabaret, Françoise) Considérations topologiques sur les contributions des orbitales moléculaires localisées aux constantes d'écran magnétique.
- Guzenko, S. Ja. 849: (with Fomin, P. I.) Asymptotic behavior of the vertex function in the "single logarithmic" approximation.
- Guzenko, S. Ya. = Guzenko, S. Ja.
- Gyftopoulos, Elias P. 1038: Stability criteria for a class of nonlinear systems.
- Haag, R. 857: (with Maris, Th. A. J.) Dilatationally invariant quantum electrodynamics of electrons and muons.
- Haberman, S. 1681: The distributions of "s" for numerous and extensive ties in one of a pair of rankings of length n.
- Haberman, W. L. 2736: Secondary flow about a sphere rotating in a viscous liquid inside a coaxially rotating spherical container.
- Habetha, Klaus. 1367: Über die Werteverteilung in Winkelräumen.
- Hačaturjan, A. G. 4890: Application of the Green's function method to the thermodynamics of interstitial solutions. 4891: Nonlinear equations of integral type and their applications to the problem of ordered alloys. 4892: Nonlinear equations of integral type and their application to the study of the crystal symmetries of interstitial solutions.
- Hačaturjan, T. T. 2686: On the theory of bending and contraction of thick slabs.
- Haddock, A. G. 5436: Rotation groups under monotone transformations.
- Hadjidemetriou, John D. 3866: Two-body problem with variable mass: A new approach.
- Hady, Moustafa Abdel. 562: Beiträge zur Theorie der W-Flächen.
- Haefliger, André. 625: Plongements différentiables dans le domaine stable.
- Hagedorn, R. 1881: ★Relativistic kinematics: A guide to the kinematic problems of high-energy physics.
- Hahn, Hwa S. 3980: On the relative growth of differences of partition functions.
- Hahn, Yukap. 841: (with O'Malley, Thomas F. and Spruch, Larry) Improved minimum principle for single-channel scattering. 5699: (with O'Malley, Thomas F. and Spruch, Larry) Bounds on multi-channel scattering parameters. 5700: (with O'Malley, Thomas F. and Spruch, Larry) Improved minimum principle for multichannel scattering.
- Haimo, Deborah Tepper. 3297: Variation diminishing transformations.
- Haimovici, Adolf. 316: Sur la résolution de certains systèmes d'équations aux dérivées partielles, qui généralisent les systèmes de Cauchy-Kowalewsky. 317: Sur l'approximation des intégrales d'un certain système d'équations aux dérivées partielles par des polynômes. 3233: Sur un système qui généralise le système de Cauchy-Kowalewsky.
- Haimovici, Mendel. 3236: Sur l'intégration des systèmes de Pfaff complets.
- Hájek, Petr. 4993: (with Sochor, Antonín) Ein dem Fundierungsaxiom äquivalentes Axiom.
- Hajnal, A. 3945: Remarks on the theorem of W. P. Hanf.
- Haken, Hermann. 1887: Effective particle interaction via a Bose-field.
- Haken, Wolfgang. 3410: Über das Homöomorphieproblem der 3-Mannigfaltigkeiten. I.
- Halanaš, A. = Halanay, Aristide.
- Halanay, Aristide. 2301: Noyaux positivement définis et stabilité des systèmes automatiques. 3230: Some problems in the qualitative theory of systems with time lag.
- Halatnikov, I. M. 3744: (with Pataşhinskiĭ, A. Z. and Pokrovskii, V. L.) Regge poles in quasiclassical potential well problems. 4837: (with Pataşhinskiĭ, A. Z. and Pokrovskii, V. L.) Quasiclassical scattering in a centrally symmetric field.
- Halberg, Charles J. A., Jr. 481: Semigroups of matrices defining linked operators with different spectra.
- Halberstam, H. 5027: (with Laxton, R. R.) On perfect difference sets.
- Haldane, J. B. S. 2927: The mathematical theory of natural selection. 3497: (with Jayakar, S. D.) The distribution of extremal and nearly extremal values in samples from a normal distribution.
- Hale, Jack K. 305: A stability theorem for functional-differential equations. 3229: Asymptotic behaviour of the solutions of differential-difference equations. 2281: (with Onuich, Nelson) On the asymptotic behavior of solutions of a class of differential equations. 3200: (with Seifert, G.) Bounded and almost periodic solutions of singularly perturbed equations.
- Halfin, L. A. 4832: The hypothesis of Regge poles in quantum field theory and the threshold singularities of inelastic processes.
- Hallin, B. 4534: Bemerkungen über ebene Graphen. 4535: Über einen Satz von K. Wagner zum Vierfarbenproblem.
- Hall, P. 129: On non-strictly simple groups. 5111: (with Kulatilaka, C. R.) A property of locally finite groups.
- Hall, W. J. 665: Some sequential analogs of Stein's two-stage test.
- Halliday, I. G. 3737: High-energy behaviour in perturbation theory. 3736: (with Polkinghorne, J. C.) High-energy behavior in production processes.
- Halmos, P. R. 3350: (with Brown, Arlen) Algebraic properties of Toeplitz operators. 477: (with McLaughlin, J. E.) Partial isometries.
- Halperin, Israel. 4362: The spectral theorem.
- Halperin, Max. 1680: Interval estimation of non-linear parametric functions. II. 699: (with Mantel, Nathan) Analyses of birth-rank data.
- Halpern, Leopold. 5893: On alternative approaches to gravitation.
- Halvorsen, Sighjorn. 4186: Bounds for solutions of second order linear differential equations, with applications to L^2 -boundedness.
- Hammer, Gerald. 4545: Ein Verfahren zur Bestimmung von Begleitknoten.
- Hämmerlin, Günther. 1756: Über ableitungsfreie Schranken für Quadraturfehler.
- Hammersley, J. M. 4945: The mathematical analysis of traffic congestion. 2584: (with Frisch, H. L.) Percolation processes and related topics. 2585: (with Walters, R. S.) Percolation and fractional branching processes.
- Hanani, Haim. 1136: On some tactical configurations.
- Handelman, G. H. 3591: Surface waves over a slightly curved elastic half-space.
- Handscorn, D. C. 3798: A Monte Carlo method applied to the Heisenberg ferromagnet. 5550: A rigorous lower bound for the efficiency of a Monte Carlo technique.
- Haneke, W. 1179: Verschärfung der Abschätzung von $\zeta(1/2 + it)$.
- Hanf, W. 3943: Incompactness in languages with infinitely long expressions. 3944: On a problem of Erdős and Tarski.
- Hanisch, Herman. 2587: (with Hirsch, Warren M.) Note on the busy period in the case of infinite means.
- Hannan, J. 3495: (with Harkness, W.) Normal approximation to the distribution of two independent binomials, conditional on fixed sum.
- Hano, Jun-ichi. 1258: On compact complex coset spaces of reductive Lie groups.

- Hanš, Otto. 4656: (with Křepela, Josef) Producer-consumer aspects of acceptance sampling by attributes.
- Hanson, D. L. 4576: (with Blum, J. R. and Koopmans, L. H.) On the strong law of large numbers for a class of stochastic processes.
- Hanson, M. A. 1011: Infinite non-linear programming. 1013: An algorithm for convex programming. 2020: Bounds for functionally convex optimal control problems. 5861: Upper and lower bounds for a certain class of constrained variational problems.
- Hara, Kei. 5848: (with Sawaragi, Yoshikazu and Sunahara, Yoshifumi) An analysis on non-stationary response of non-linear control systems by the method of Taylor-Cauchy transform.
- Hara, Osamu. 862: Meissner effect and the self-energy of the photon.
- Harary, F. 4539: (with Kodama, Y.) On the genus of an n -connected graph. 1611: (with Beineke, Lowell W. and Moon, John W.) On the thickness of the complete bipartite graph.
- Harasahai, V. H. 3205: On quasi-periodic solutions of systems of ordinary differential equations.
- Hardy, Robert J. 948: Energy-flux operator for a lattice.
- Harish-Chandra. 5144: Invariant distributions on Lie algebras.
- Harkness, W. 3495: (with Hannan, J.) Normal approximation to the distribution of two independent binomials, conditional on fixed sum. 4617: (with Srivastava, O. P. and Bartoo, J. B.) Asymptotic distribution of distances between order statistics from bivariate populations.
- Harlamov, P. V. 2664: On the equations of motion for a heavy body with a fixed point.
- Harman, Harry H. 2610: ★Modern factor analysis.
- Harrah, David. 1019: ★Communication: A logical model.
- Harris, T. C. 1806: (with Struble, R. A.) Motion of a relativistic damped oscillator.
- Harris, W. A., Jr. 377: (with Sibuya, Y.) Note on linear difference equations. 2366: (with Sibuya, Y.) Asymptotic solutions of systems of nonlinear difference equations.
- Harrison, D. K. 125: (with Irwin, J. M.; Peercy, C. L. and Walker, E. A.) High extensions of Abelian groups.
- Harrison, Michael A. 1055: The number of transitivity sets of Boolean functions.
- Harrold, O. G., Jr. 1597: Combinatorial structures, local unknottedness, and local peripheral unknottedness.
- Hartigan, J. 4613: Invariant prior distributions.
- Hartman, Philip. 293: (with Onuchic, Nelson) On the asymptotic integration of ordinary differential equations on planes.
- Harmanis, J. 3905: (with Stearns, R. E.) Regularity preserving modifications of regular expressions.
- Härtner, Erich. 5031: Eine Bemerkung über periodische Minimalbasen für die Menge der nichtnegativen ganzen Zahlen.
- Haruki, Hiroshi. 4416: On a characteristic property of confocal conic sections.
- Harzheim, E. = Harzheim, Egbert.
- Harzheim, Egbert. 2054: Mehrfach wohlgeordnete Mengen und eine Verschärfung eines Satzes von Lindenbaum. 2055: Bemerkungen zu den Sätzen von Hausdorff-Urysohn und Padmavally. 5011: Beiträge zur Theorie der Ordnungstypen, insbesondere der η_α -Mengen.
- Hasanova, M. 4188: (with Kukles, I. S.) On the global behaviour of the characteristics of a differential equation on planes.
- Hasdorff, L. 2002: (with Gupta, S. C.) Changing the state of a linear system by use of normal function and its derivatives.
- Hasegawa, Yōjirō. 4255: (with Arima, Reiko) On global solutions for mixed problem of a semi-linear differential equation.
- Hasegawa, Yoshimitsu. 5299: On summabilities of double Fourier series.
- Haselgrove, C. B. 2913: (with Haselgrove, Jenifer and Jennison, R. C.) Ray paths from a cosmic radio source to a satellite in orbit.
- Haselgrove, Jenifer. 2913: (with Haselgrove, C. B. and Jennison, R. C.) Ray paths from a cosmic radio source to a satellite in orbit.
- Haseltine, W. R. 4702: Existence theorems for nonlinear ballistics. 4703: Existence theorems for nonlinear ballistics. II. Effect of gravity.
- Hashimoto, Hiroshi. 155: Algebraic system with an operator.
- Hashin, Z. 2676: (with Shtrikman, S.) A variational approach to the theory of the elastic behaviour of multiphase materials.
- Has'minskii, R. Z. 4253: The averaging principle for parabolic and elliptic differential equations and Markov processes with small diffusion. 5234: The behavior of a self-oscillating system acted upon by slight noise. 5470: On the stability of the trajectory of Markov processes.
- Hasse, Helmut. 2115: ★Höhere Algebra. I: Lineare Gleichungen. 2093: (with Hornfeck, Bernhard) Über den Wertevorrat quadratischer Formen.
- Hasse, Maria. 152: Über die Erzeugung von Kategorien aus Halbgruppen.
- Hatipov, A. È.-A. 2493: On the theory of surfaces in a space with decomposed absolute.
- Hatori, Hirohisa. 638: Some expansion theorems for stochastic processes. II.
- Hattori, Akira. 2125: Semisimple algebras over a commutative ring.
- Hauge, E. Ellis. 3905: (with Hemmer, P. C.) Yang-Lee distribution of zeros for a van der Waals gas.
- Haupt, Otto. 3359: Aus der Theorie der geometrischen Ordnungen.
- Havel, Václav. 1143: On semichained refinements of chains in equivalence lattice. (A note to a theorem of O. Borůvka). 4444: Über die begleitenden Normaldreiecke der Fläche $\mathcal{A}_{3,3}$. I.
- Havelka, Josef. 2489: Sur une généralisation de la normale affine.
- Havinson, S. Ja. 1280: Some remarks on integrals of Cauchy-Stieltjes type.
- Havpačev, S. K. 4130: A harmonic function representable by the Poisson integral of a function of bounded second variation.
- Hayakawa, Michikazu. 4159: On Legendre functions with non-integer indices.
- Hayari, René. 4705: Une application simple des formules de Murnaghan généralisées.
- Hayashi, Chihiro.
- Hayashi, Chihiro. 2297: (with Nishikawa, Y.) Initial conditions leading to different types of periodic solutions for Duffing's equation. 2300: (with Shibayama, H. and Ueda, Y.) Quasi-periodic oscillations in a self-oscillatory system with external force.
- Hayashi, Chushiro. 1975: (with Tomita, Kenji) The cosmical constant and the age of the universe.
- Hayashi, Eiichi. 5418: On λ -topology.
- Hayashi, Yoshiaki. 180: A trial production on the integral. III. 5163: A trial production on the integral. IV.
- Hayashida, Kazunari. 2348: A note on a weak subsolution.
- Hayes, J. N. 2863: On non-Landau damped solutions to the linearized Vlasov equation.
- Hayes, M. 5606: Uniqueness for the mixed boundary-value problem in the theory of small deformations superimposed on large.
- Hays, D. F. 5647: A variational formulation applied to Couette and Poiseuille flow.
- Hazen, E. M. 2746: The theory of turbulence in inhomogeneous flows.
- Hazony, D. 822: (with Duffin, R. J.) The degree of a rational matrix function.
- Head, J. W. 194: (with Fine, M.) A note on multi-point Laurent-Taylor series.
- Head, T. J. 4020: Note on the occurrence of direct factors in groups.
- Heath, Thomas L. 4: ★A manual of Greek mathematics.
- Hedlund, G. A. 1609: (with Gottschalk, W. H.) A characterization of the Morse minimal set.
- Hedrlin, Zdeněk. 3112: Two theorems concerning common fixed point of commutative mappings. 3111: (with Baayen, P. C.) On the product and sum of a system of transformation semigroups.
- Hedstrom, G. W. 221: (with Korevaar, J.) The zeros of the partial sums of certain small entire functions.
- Heigl, Franz. 191: Neuere Entwicklungen in der Geometrie der Polygone.
- Heilbronn, H. 3003: On the representation of a rational as a sum of four squares by means of regular functions.
- Heiles, Carl. 1969: (with Hénon, Michel) The applicability of the third integral of motion: Some numerical experiments.
- Heinen, W. 5825: ★Exakte Methoden der Unternehmensführung.
- Heins, Maurice. 4109: Fundamental polygons of Fuchsian and Fuchsoid groups.
- Heinz, Erhard. 340: Interior estimates for solutions of elliptic Monge-Ampère equations.

- Helemskii, A. Ja. 1224: On algebras of nilpotent operators and categories associated with them. 448: (with Henkin, G. M.) Embeddings of compacta into ellipsoids.
- Helgason, S. 162: Fundamental solutions of invariant differential operators on symmetric spaces. 1631: Duality and Radon transform for symmetric spaces. 1632: Duality and Radon transform for symmetric spaces.
- Heller, A. 5093: (with Reiner, I.) Grothendieck groups of orders in semisimple algebras.
- Heller, Isidore. 100: On unimodular sets of vectors.
- Heller, J. 2600: Sequencing aspects of multiprogramming.
- Hellgren, Gösta. 4978: Some characteristics of two simple linear and stochastically time-varying control systems of interest in angle and range measurement and tracking by monopulse radar.
- Hellman, O. 4761: A generalization of the equations of the electromagnetic field of a moving electron. 5715: A possible generalization of quantum electrodynamics.
- Hellwig, Günter. 1378: Eine Bemerkung zum Ausstrahlungsproblem.
- Helmberg, Gilbert. 2190: Über die Nichtexistenz "stetiger" Borel-Masse. 5297: Almost periodic functions and Dini's theorem. 5296: (with Flor, Peter) Zur definition der Verteilungsfunktion einer reellwertigen Funktion.
- Helson, Henry. 106: Convergent Dirichlet series. 487: (with Lowdenslager, David) Invariant subspaces.
- Hély, Jean. 4916: Remarques sur les états de radiation de type intégrable.
- Hemmer, P. C. 924: On the van der Waals theory of the vapor-liquid equilibrium. IV. The pair correlation function and equation of state for long-range forces. 5595: (with Fujiwara, I.) New aspects in classical dynamics. I, II, III. 3905: (with Hauge, E. Hils) Yang-Lee distribution of zeros for a van der Waals gas. 923: (with Kac, M. and Uhlenbeck, G. E.) On the van der Waals theory of the vapor-liquid equilibrium. III. Discussion of the critical region.
- Hempel, John. 599: A simply connected 3-manifold is S^3 if it is the sum of a solid torus and the complement of a torus knot. 3409: A surface in S^3 is tame if it can be deformed into each complementary domain.
- Hendricks, Walter A. 3504: Estimation of the probability that an observation will fall into a specified class.
- Henin, F. 841: On the microscopic theory of Cherenkov radiation. 2864: Liouville equation for a relativistic charged particle.
- Henkin, G. M. 448: (with Helemskii, A. Ja.) Embeddings of compacta into ellipsoids.
- Henley, E. 4798: Time reversal in nuclear forces.
- Henneberger, Walter C. 5716: Hermiticity of Hamiltonians and existence of eigenstates in soluble field theories.
- Henney, Alan Gilbert. 3304: (with Henney, Dagmar Renate) One parameter semigroups.
- Henney, Dagmar Renate. 3304: (with Henney, Alan Gilbert) One parameter semigroups.
- Hénon, Michel. 1969: (with Heiles, Carl) The applicability of the third integral of motion: Some numerical experiments.
- Henrieli, Peter. 2198: An algebraic proof of the Lagrange-Bürmann formula. 2632: Some applications of the quotient-difference algorithm.
- Henstock, Ralph. 1274: ★Theory of integration. 2187: Tauberian theorems for integrals.
- Hepp, Klaus. 3464: Klassische komplexe Liesche Gruppen und kovariante analytische Funktionen.
- Heppes, A. 4435: (with Fejes Tóth, L.) Über stabile Körpersysteme.
- d'Herbemont, G. 4639: Considérations géométriques sur les plans d'expérimentation.
- Herbst, Laurence. 1690: Almost periodic variances.
- Herdan, Gustav. 1033: A critical examination of Simon's model of certain distribution functions in linguistics. 4961: ★The calculus of linguistic observations.
- Hering, Christoph. 4024: Eine Charakterisierung der endlichen zweidimensionalen projektiven Gruppen.
- Herrmann, Robert. 1558: Focal points of closed submanifolds of Riemannian spaces. 3391: Spherical compact hypersurfaces. 3462: Geometric aspects of potential theory in symmetric spaces. III.
- 3463: Complex domains and homogeneous spaces. 4554: A Poisson kernel for certain homogeneous spaces. 5145: Compactifications of homogeneous spaces and contractions of Lie groups. 5406: An incomplete compact homogeneous Lorentz metric.
- Hermes, H. 2015: A note on the range of a vector measure; application to the theory of optimal control. 2035: ★Einführung in die mathematische Logik. Klassische Prädikatenlogik. 5016: ★The theory of lattices and its application to mathematical logic.
- Herrmann, G. 4716: On variational principles in thermoelasticity and heat conduction. 2720: (with Tasi, J.) Thermoelastic dissipation in high-frequency vibrations of crystal plates.
- Herrmann, Manfred. 2477: Zur Multiplizitätsbestimmung in der abzählenden Geometrie bei der Behandlung von Berührungsproblemen.
- Herscovitz, Victoria E. 4790: (with Maris, Th. A. J. and Jacob, Gerhard) Quantum electrodynamics with zero bare fermion mass.
- Herstein, I. N. 2128: Sui commutatori degli anelli semplici. 2129: A remark on rings and algebras. 3058: Rings admitting certain automorphisms.
- Hervé, Michel. 1069: Travaux de Kœcher sur les formes modulaires. 3177: Quelques propriétés des applications analytiques d'une boule à n dimensions dans elle-même.
- Herz, C. S. 1477: A class of negative-definite functions. 428: (with de Leeuw, Karel) Sur la stabilité de la synthèse spectrale.
- Hers, J.-C. 1057: Caractérisation des caractères des groupes finis (d'après R. Brauer).
- Hertzberg, Agnes M. 1716: Two third order rotatable designs in four dimensions.
- Heuchenne, C. 2058: La saturation dans les treillis.
- Heuer, G. A. 2461: (with Lindberg, J. A., Jr.) Algebraic extensions of continuous function algebras.
- Hewitt, Edwin. 4384: (with Kakutani, Shizuo) Some multiplicative linear functionals on $M(G)$. 158: (with Ross, Kenneth A.) ★Abstract harmonic analysis. Vol. I: Structure of topological groups. Integration theory, group representations.
- Heyda, James F. 2784: Temperature distribution in an orbiting sphere with alternate heating and cooling.
- Heyde, C. C. 5459: On the stationary waiting time distribution in the queue $GI/G/1$.
- Heyn, Eugen. 308: Die Differentialgleichung $dT/dt = P(t)T$ für Operatorfunktionen.
- Heyting, A. 4413: ★Axiomatic projective geometry.
- Hieu, Nguyen Van. See Nguyen Van Hieu.
- Higgins, P. J. 1246: Presentations of groupoids, with applications to groups.
- Higgins, Theodore P. 2413: An inversion integral for a Gegenbauer transformation.
- Hilde, K. 860: Theory of spin- $\frac{1}{2}$ particles with parity-nonconserving interactions.
- Hill, R. 3572: New derivations of some elastic extremum principles.
- Hille, Einar. 3191: Green's transforms and singular boundary value problems.
- Hillion, P. 831: Hyperspherical harmonics and tensors. 2843: Les résonances et l'espace $\mathcal{H}(R_3^+)$. 4115: Espaces de Hilbert de fonctions entières périodiques sur l'axe réel.
- Hilsenrath, Joseph. 824: (with Ziegler, Guy G.) ★Tables of Einstein functions. Vibrational contributions to the thermodynamic functions.
- Hilton, Alice Mary. 741: ★Logic, computing machines, and automation.
- Hilton, P. J. 3427: Note on H -spaces and nilpotency. 128: (with Yahya, S. M.) Unique divisibility in abelian groups.
- Hily, Jacques. 1196: Séries d'interpolation pour les fonctions de plusieurs variables p -adiques.
- Hintin, A. Ja. 5037: ★Continued fractions. 5038: ★Continued fractions. 1640: (with Gnedenko, B. V.) ★Introduction à la théorie des probabilités.
- Hinderer, Karl. 631: Über Rekurrenz gewisser zeitlich inhomogener Irrfahrten. 5483: Bemerkungen zu räumlich homogenen Gitterirrfahrten.

- Hinkelmann, Klaus. 4640: Extended group divisible partially balanced incomplete block designs.
- Hirasawa, Yoshikazu. 5254: On an estimate for semi-linear elliptic differential equations of the second order.
- Hiromi, Genkō. 4138: On a criterion for regularity.
- Hirsch, Warren M. 2587: (with Hanisch, Herman) Note on the busy period in the case of infinite means.
- Hirschfelder, Joseph O. 842: (with McElroy, Michael B.) Hypervirial theorem for collisions between electrons and atoms. 3672: (with Robinson, Peter D.) Generalized momentum operators in quantum mechanics.
- Hirschman, I. I., Jr. 433: Variation diminishing Hankel transforms. 434: Variation diminishing transformations and ultraspherical polynomials. 3296: Variation-diminishing transformations and general orthogonal polynomials. 3351: Extreme eigen values of Toeplitz forms associated with ultraspherical polynomials. 4391: Extreme eigen values of Toeplitz forms associated with Jacobi polynomials.
- Hirzebruch, Friedrich. 1091: A Riemann-Roch theorem for differentiable manifolds.
- Hirzebruch, Ulrich. 2253: Halbräume und ihre holomorphen Automorphismen.
- Hitotumatu, Sin. 5193: On plurisubharmonic functions.
- Hlavaty, V. 1945: Reduction of unknowns in Einstein-Maxwell field equations. I. Characteristic [111]. 1946: Reduction of unknowns in Einstein-Maxwell field equations. II. Characteristics [112], [(11)11], [(111)1]. 2901: (with Mishra, R. S.) Classification of space-time curvature tensor. I. Introduction.
- Hmyrova, N. A. 3975: On polynomials with small prime divisors.
- Hobby, Charles. 1643: (with Pyke, Ronald) A combinatorial theorem related to comparisons of empirical distribution functions. 3467: (with Pyke, Ronald) Remarks on the equivalence principle in fluctuation theory.
- Hochstadt, Harry. 2310: Instability intervals of Hill's equation. 5224: On the stability of certain second order differential equations.
- Hocking, J. G. 3397: Schwache lokale Invertierbarkeit. 5428: (with Guay, M. D. and Kronk, H. V.) Local near-homogeneity.
- Hocking, L. M. 2744: The instability of a non-uniform vortex sheet.
- Hockney, R. W. 5567: A solution of Laplace's equation for a round hole in a square peg.
- Hoehnke, Hans-Jürgen. 48: Charakterisierung der Kongruenzklassen-Teilsysteme in binären partiellen Algebren. 4051: Zur Strukturtheorie der Halbgruppen. 4052: Zur Theorie der Gruppoide. I. 4053: Zur Theorie der Gruppoide. II.
- Hoffman, A. J. 1907: On simple linear programming problems. 4536: On the line graph of the complete bipartite graph. 1010: (with Gomory, R. E.) On the convergence of an integer-programming process.
- Hoffman, Kenneth. 1504: ★Fundamentals of Banach algebras.
- Hoffman, W. C. 5686: Wave propagation in a general random continuous medium.
- Hofmann, Joseph Ehrenfried. 1112: ★Geschichte der Mathematik. Teil I: Von den Anfängen bis zum Auftreten von Fermat und Descartes. 4983: Über die *Exercitatio Geometrica* des M. A. Ricci.
- Högaasen-Feldman, J. 912: Étude du nombre de particules dans l'approximation des quasi-particules.
- Hogben, D. 1675: (with Pinkham, R. S. and Wilk, M. B.) The moments of a variate related to the non-central t . 1676: (with Pinkham, R. S. and Wilk, M. B.) An approximation to the distribution of Q (a variate related to the non-central t).
- Hogg, Robert V. 2590: Iterated tests of the equality of several distributions.
- Hoheisel, Guido. 1455: ★Integralgleichungen.
- Holschen, Lothar. 3272: Beiträge zur Limitierungstheorie.
- Hölder, Ernst. 3354: Beweise einiger Ergebnisse aus der Theorie der 2. Variation mehrfacher Extremalintegrale.
- Holland, Charles. 1237: The lattice-ordered group of automorphisms of an ordered set.
- Hollander, Myles. 1708: A nonparametric test for the two-sample problem.
- Holm, Lloyd Martin. 5747: (with Secret, Don) Eigenfunctions of the electron spin operators.
- Holmann, Harald. 5446: ★Vorlesung über Faserbündel.
- Holsztyński, W. 2517: (with Archangielski, A.) Sur les réseaux dans les espaces topologiques.
- Holter, Ø. 940: (with Tjøtta, S.) On the internal electromagnetic energy in a plasma.
- Homer, Louis D. 3309: (with Turner, Malcolm E. and Monroe, Robert J.) Generalized kinetic regression analysis: Hypergeometric kinetics.
- Hommel, Raimund. 1860: (with Cap, Ferdinand) Der Satz von Crocco in der Magnetogasdynamik.
- Honda, Kōji. 3321: A characteristic property of L_p -spaces ($p \geq 1$). III. Honda, Naobumi. 946: (with Aono, Osamu and Kihara, Taro) Fluctuations in a plasma. III. Effect of the magnetic field on the stopping power.
- Hopgood, F. B. A. 914: (with Emery, V. J. and Gammel, J. L.) Ground-state energy and sound velocity of a system of interacting bosons.
- Horadam, E. M. 5047: A calculus of convolutions for generalised integers. 5048: Selberg's inequality for generalised integers using the calculus of convolutions.
- Horáková, Kornélia. 3030: (with Schwarz, Štefan) Cyclic matrices and algebraic equations over a finite field.
- Hofejš, Jiří. 3928: Note on definition of recursiveness.
- Hörmander, Lars. 2465: Opérateurs différentiels à caractéristiques simples. 4221: ★Linear partial differential operators.
- Horn, D. 895: (with Ne'eman, Y.) Unitary symmetry and the weak currents. 4854: (with Ne'eman, Y.) Unitary symmetry and the weak currents. II.
- Horne, J. G., Jr. 3404: The boundary of a one-parameter group in a semigroup.
- Hornfeck, Bernhard. 2093: (with Hasse, Helmut) Über den Wertevorrat quadratischer Formen.
- Hornik, Hans. 2355: Huygenssche Differentialgleichungen im R_3 .
- Horvitz, G. 928: (with Stinchcombe, R. B.; Englert, F. and Brout, R.) Thermodynamic behavior of the Heisenberg ferromagnet.
- Horvitz, L. P. 4831: (with Goldstone, H. H.) Hilbert space with non-associative scalars. I.
- Hoschek, Josef. 2474: Über Gleitkurven von Radlinien 2. Stufe.
- Hosszú, Miklós. 1417: Functional equations defined on algebraic systems. II. 545: (with Aczél, J.) On concomitants of mixed tensors. 5134: (with Radó, F.) Über eine Klasse von ternären Quasigruppen.
- Hou, Tian-xiang = Hou, Tjan'-sjan.
- Hou, Tjan'-sjan. 341: On the asymptotic stability in the weak sense of solutions of the Cauchy problem for systems of linear partial differential equations with constant coefficients.
- Hou, Tsung-yi. 353c: (with Gu, Chao-hao and Li, Da-qian) Discontinuous initial value problems for systems of quasi-linear hyperbolic equations. III. 353a: (with Ku, Chao-hao and Li, Ta-chien) Discontinuous initial value problems for systems of quasi-linear hyperbolic equations. I. 353b: (with Ku, Chao-hao and Li, Ta-chien) Discontinuous initial value problems for systems of quasi-linear hyperbolic equations. II.
- Hou, Zong-yi = Hou, Tsung-yi.
- Householder, A. S. 102: (with Carpenter, John A.) The singular values of involutory and of idempotent matrices.
- Houston, Agnes. 2262: (with Barakat, Richard) Chebyshev expansion of the sine and cosine integrals.
- Hovanskij, G. S. 3524: (with Ulanovskij, V. P.) ★The interpolation of tabulated functions of several variables by numerical and nomographic representation.
- Hove, L. Van. See Van Hove, L.
- Howard, Louis N. 2747: Heat transport by turbulent convection. 2737: (with Greenspan, H. P.) On a time-dependent motion of a rotating fluid.
- Howie, J. M. 3107: The embedding of semigroup amalgams. 5128: Subsemigroups of amalgamated free products of semigroups. II.
- Howland, James Lucien. 2236: The numerical solution of an induced potential problem.
- Hoyle, F. 2897: (with Narlikar, J. V.) Time symmetric electrodynamics and the arrow of time in cosmology.
- Hriplavič, I. B. 2826: Limitations on the asymptotic values of cross sections imposed by the Regge pole hypothesis.

- Hristun, M. D. 2268: On an ordinary linear differential equation of higher order.
- Hristev, Anatole. 1563: (with Popovici, Andrei and Popovici, Julien) Théorie conforme dans C_6 des particules de spin maximal 1 et 1/2.
- Hromov, A. P. 2379: Eigenfunction expansion of ordinary differential operators with non-regular decomposing boundary values.
- Hrustalev, A. F. 3651: On a boundary-value problem for the Poisson equation.
- Hrustalev, O. A. 5706: (with Arbuzov, B. A. and Filippov, A. T.) On the correlation between the exact solution and the perturbation theory series in the case of Schrödinger equation with singular potential. 867: (with Logunov, A. A.; Nguyen Van Hieu and Todorov, I. T.) Asymptotic relations between cross sections in local field theory. 1895: (with Logunov, A. A.; Tavkhelidze, A. N. and Todorov, I. T.) Quasi-potential character of the scattering amplitude.
- Hsiang, Wu-Chung. 1625: Higher obstructions to sectioning a special type of fibre bundles.
- Hsu, C. S. 4199: On the parametric excitation of a dynamic system having multiple degrees of freedom. 2302: (with Rosenberg, R. M.) On the geometrization of normal vibrations of nonlinear systems having many degrees of freedom.
- Hsu, Chen-Jung. 4479: Remarks on certain almost product spaces.
- Hsu, L. C. 1750: On a method for expanding multiple integrals in terms of integrals in lower dimensions.
- Hsu, Yi-chao. 5194: On the groups of analytic autohomeomorphisms of bounded positive (m, p) -circular domains.
- Hu, Go-din. 173: Measures in σ -topological and topological spaces.
- Hu, Ming-kuei = Hu, Ming-Kuei.
- Hu, Ming-Kuei. 5681: Modified Zernike polynomials and their application to the analysis of Fresnel region fields of circular apertures with nonuniform and nonsymmetric illumination.
- Huau, Aimé. 4200: Sur la stabilité des solutions constantes de l'équation autonome de Liénard $\ddot{x} + a(x)\dot{x} + \varphi(x) = 0$.
- Hubbard, B. E. 3550: (with Aziz, A. K.) Bounds on the truncation error by finite differences for the Goursat problem. 5566: (with Bramble, J. H.) On a finite difference analogue of an elliptic boundary problem which is neither diagonally dominant nor of non-negative type.
- Hubbell, J. H. 4152: (with Epstein, Leo F.) Evaluation of a generalized elliptic-type integral.
- Huber, Peter J. 4622: Robust estimation of a location parameter.
- Hudaverdier, K. I. 1475: (with Agaev, G. N.; Gasanov, K. G. and Jakubov, S. Ja.) Unique extension of linear functionals in linear spaces.
- Hudjaev, S. I. 1404: The first boundary-value problem for non-linear parabolic equations. 2337: Boundary-value problems for certain quasi-linear elliptic equations.
- Hudson, J. A. 4943: (with Knopoff, L.) Transmission of Love waves past a continental margin. 5821: (with Knopoff, L.; Aki, K.; Archambeau, C. B. and Ben-Menahem, A.) Attenuation of dispersed waves.
- Hudson, Sigmund N. 1249: A note on invariant uniformities in coset spaces.
- Huebsch, William. 3459: (with Morse, Marston) A bowl theorem and a model nondegenerate function.
- Huet, Denise. 1512: Perturbations singulières.
- Hukuhara, M. 2286: Sur le développement de la solution d'un système différentiel ordinaire dans un voisinage d'un point d'équilibre. 2323: (with Akô, Kiyoshi) The theory of families of majorant and minorant functions.
- Hull, T. E. 4062: (with Dobell, A. R.) Mixed congruential random number generators for binary machines.
- Hummel, J. A. 1287: The Grunsky coefficients of a schlicht function.
- Hunter, D. B. 1330: The calculation of certain Bessel functions.
- Hunter, Larry C. 2921: (with Barlow, Richard E. and Prochan, Frank) Optimum checking procedures.
- Hunter, R. P. 596: (with Anderson, L. W.) Small continua at certain orbits. 5431: (with Anderson, L. W.) The \mathcal{H} -equivalence in a compact semigroup. II.
- Hurwitz, Alexander. 2991: (with Selfridge, J. L.) Fermat numbers and Mersenne numbers.
- Husain, Taqdir. 5329: On completion and completeness of $B(\mathcal{U})$ -spaces.
- Hussein, S. Y. 2541: A note on the intrinsic join of Stiefel manifolds.
- Huston, Ronald L. 3594: Wave propagation in rotating elastic media.
- Hutchinson, P. 932: (with Rushbrooke, G. S.) On the hyper-chain equation of state of a hard-sphere gas.
- Huyett, Marilyn J. 675: (with Wilk, M. B. and Gnanadesikan, R.) Estimation of parameters of the gamma distribution using order statistics. 676: (with Wilk, M. B. and Gnanadesikan, R.) Separate maximum likelihood estimation of scale or shape parameters of the gamma distribution using order statistics.
- Huzi, Mituaki. 660: On a simplified method of the estimation of the correlogram for a stationary Gaussian process.
- Huzino, Seiti. 3331: On the convergence of some linear stationary iterative processes of second degree.
- Hylleraas, Egil A. 1918: Zur praktischen Lösung der relativistischen Einielektronengleichung. II. 2798: On the inversion of eigenvalue problems.
- Hyrrö, Seppo. 62: On the Catalan problem.
- Jacob, Caius. 2233: Sur le problème de Dirichlet à singularités données.
- Jarov-Jarovoi, M. S. = Jarov-Jarovoi, M. S.
- Ibragimov, I. A. 3488: An estimate for the spectral function of a stationary Gaussian process.
- Ibragimov, S. I. 5245: An approximate solution of the Cauchy problem for the evolution equation with an unbounded operator.
- Ichino, Ichiro. 3578: (with Takahashi, Hiroshi) Theory of nonsymmetrical bending state for spherical shell.
- Iddings, C. K. 3749: (with Nath, Pran and Shaw, G. L.) The uncoupled phase method for interactions with hard cores.
- Ide, Saburo. 1578: On the geometrical meanings of Wirtinger's connections based on Kawaguchi's.
- Igarashi, Shigeru. 4979: On the logical schemes of algorithms.
- Igari, Satoru. 1431: An extension of the interpolation theorem of Marcinkiewicz. II. 3292: Correction: "On the decomposition theorems of Fourier transforms with weighted norms."
- Ignaczak, Józef. 3593: Rayleigh waves in a non-homogeneous isotropic elastic semi-space. I.
- Ignatenko, V. V. 2273: A power expansion for one-dimensional boundary-value problems.
- Ikeda, Mineo. 1564: (with Kitamura, Shin'ichi and Matsumoto, Makoto) On the imbedding of spherically symmetric space times. 2810: (with Maekawa, Takayoshi; Miyachi, Yoshihiko; Senba, Kei and Shohno, Naomi) An approach to the problem of bound states. I.
- Ikoma, Kazuo. 3153: A criterion for a set and its image under quasi-conformal mapping to be of α ($0 < \alpha \leq 2$)-dimensional measure zero.
- Iliadis, S. 588: Characterization of spaces by means of H -closed extensions. 589a: Absolutes of Hausdorff spaces.
- Il'in, V. P. 2177: On inequalities between norms of partial derivatives of functions of several variables. 3128: Some inequalities between the norms of partial derivatives of functions of several variables.
- Il'julin, A. A. 2714: ★Plasticity. Foundations of the mathematical theory.
- Illingworth, Charles R. 3617: Fluctuating flow at small Reynolds number.
- Imhof, J. P. 715: On the method for numerical integration of Clenshaw and Curtis.
- Imre, Margit. 5379: Kreislagerungen auf Flächen konstanter Krümmung.
- Inaba, Eiichi. 5061: Galois extensions associated with generalized Artin-Schreier equations.
- Inasaridze, H. N. 3074: On the theory of extensions in categories. 4045: On simple semigroups.
- Infeld, E. 3770: On the solutions of linearized equations of magneto-hydrodynamics in non homogeneous magnetic fields.
- Infeld, L. 1941: Is Planck's constant a constant in a gravitational field? 3838: "Uniformly accelerated" motion and relativity.
- Ingarden, R. S. 2928: Information theory and variational principles in statistical theories.
- Inkeri, K. 5036: Über die Lösbarkeit einiger Diophantischer Gleichungen.
- Inopin, E. V. 1917: Polarization of particles with arbitrary spin in nuclear reactions.
- Inoue, Sakuji. 4364: A note on the functional-representations of

- normal operators in Hilbert spaces. 4365: Some applications of the functional-representations of normal operators in Hilbert spaces. VII, VIII, IX.
- Ioffe, B. L. 853: (with Geshkenbein, B. V.) Restrictions on the values of coupling constants in quantum field theory. I. 3745: (with Geshkenbein, B. V.) Trajectories of Regge vacuum poles. 4814: (with Geshkenbein, B. V.) Restrictions on the values of the coupling constants and the vertex part for the interaction of three particles in quantum field theory. II.
- Iohvidov, I. S. 468: Singular linear manifolds in spaces with an arbitrary Hermitian bilinear metric. 469: Operators with completely continuous iterations.
- Ionescu, D. 2640: Méthodes pratiquées pour l'intégration numérique des équations différentielles du premier ordre. 3539: Généralisation d'une formule de dérivation numérique de V. N. Fadeeva.
- Ionescu Tulcea, Alexandra. 4082: Random series and spectra of measure-preserving transformations. 177: (with Ionescu Tulcea, C.) On the lifting property. III.
- Ionescu Tulcea, C. 177: (with Ionescu Tulcea, A.) On the lifting property. III.
- Iordanskii, S. V. 5609: (with Kulikovskii, A. G.) Stability of the higher correlation functions in a plasma.
- Iosifescu, M. 3472: (with Teodorescu, R.) Properties of chains with complete connections.
- Iosifescu, M. = Iosifescu, M.
- Iri, Masao. 2533: On the number of 2-isomorphic graphs.
- Irons, E. T. 1798: Towards more versatile mechanical translators.
- Irwin, J. M. 125: (with Harrison, D. K.; Peercy, C. L. and Walker, E. A.) High extensions of Abelian groups.
- Isaev, V. K. 2630: (with Sonin, V. V.) On a modification of Newton's method for the numerical solution of boundary-value problems.
- Isakova, E. K. 1407: A general boundary-value problem for parabolic equations in the plane.
- Isbell, J. R. 127: Two set-theoretical theorems in categories.
- Ishida, Makoto. 5065: On fields of division points of algebraic function fields of one variable.
- Ishiguro, Kazuo. 2378: A note on the logarithmic means. 3286: On circle and quasi-Hausdorff methods of summability of Fourier series. 4273: (with Kuttner, Brian) On the Gibbs phenomenon for quasi-Hausdorff means.
- Ishihara, Shigeru. 1553: On concircular transformations.
- Isiwata, Takeshi. 1586: Mappings and pseudo-compact spaces.
- Islam, J. N. 3738: Lending Landau curves of some Feynman diagrams. 870: (with Landshoff, P. V. and Taylor, J. C.) Singularity of the Regge amplitude.
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- Itô, Takashi. 4346: Remarks on completeness of continuous function lattice.
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- Iurchenko, S. I. = Jurčenko, S. I.
- Ivan, Ján. 3110: Simplicity and minimal ideals of a direct product of semigroups.
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- Ivanitskaya, O. S. = Ivanickaja, O. S.
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- Ivasiliu, S. D. 4250: (with Eidel'man, S. D.) Continuation of the solution of the Cauchy problem for parabolic systems.
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- Iwano, Masahiro. 4166: On a singular point of Briot-Bouquet type of a system of ordinary non-linear differential equations.
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- Izyumov, Yu. A. = Izjumov, Ju. A.
- Jääskeläinen, Paavo. 4762: On orthogonal functions in microwave theory.
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- Jacob, Gerhard. 4790: (with Maris, Th. A. J. and Herscovitz, Victoria E.) Quantum electrodynamics with zero bare fermion mass.
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- Jacobs, K. 3138: †★Lecture notes on ergodic theory, 1962/63. Parts I, II.
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- Jacobson, N. 1065: Le problème de Kurosch. 3065: Some groups of transformations defined by Jordan algebras. II. Groups of type F_4 . 3066: Some groups of transformations defined by Jordan algebras. III.
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- de Jager, E. M. 1390: The Lorentz invariant solutions of the Klein-Gordon equation. I, II, III.
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- Jakimova, K. E. 752: On the equations of motion of an affine-variable body.
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- Jakubík, J. 2156: Über eine Klasse von l -Gruppen. 4041: Interval topology of an l -group.
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- Jakubović, V. A. 311a: Absolute stability of non-linear control systems in critical cases. I. 311b: Absolute stability of non-linear control systems in critical cases. II. 313: (with Derguzov, V. I.) Existence of solutions of linear Hamiltonian equations with unbounded operator coefficients. 312: (with Krein, M. G.) Hamiltonian systems of linear differential equations with periodic coefficients. 3015: (with Gelfond, A. O.; Linnik, Ju. V. and Čudakov, N. G.) Letter to the editor: On an erroneous paper of N. I. Gavrilov.
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- Johnson, K. = Johnson, Kenneth A.
- Johnson, K. G. 2452: $B(S, \Sigma)$ algebras.
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- Jones, B. Frank, Jr. 4305: A class of singular integrals. 3260: (with Cannon, J. R.) Determination of the diffusivity of an anisotropic medium. 3259: (with Cannon, J. R. and Douglas, Jim, Jr.) Determination of the diffusivity of an isotropic medium.
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- Jones, G. Stephen. 1361: Asymptotic fixed point theorems and periodic systems of functional-differential equations. 5271: Fundamental inequalities for discrete and discontinuous functional equations.
- Jones, J. G. 1851: Shock-expansion theory and simple wave perturbation.
- Jones, P. B. 1916: ★The optical model in nuclear and particle physics.
- Jongmans, F. 5417: Incidents de frontière.
- Jónsson, Bjarni. 52: (with Crawley, Peter) Direct decompositions of algebraic systems.
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- Jordan, T. F. 1909: (with Currie, D. G. and Sudarshan, E. C. G.) Erratum: "Relativistic invariance and Hamiltonian theories of interacting particles". 3665: (with Macfarlane, A. J. and Sudarshan, E. C. G.) Hamiltonian model of Lorentz invariant particle interactions.
- Jorgenson, D. 998: (with Bear, D. V. T. and Wagner, H. M.) Elementary proofs of propositions on Leontief-Minkowski matrices.
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- Kaigorodov, V. R. = Kaigorodov, V. R.
- Kaigorodov, V. R. 963: Einstein spaces of maximum mobility. 3842: The classification of gravitational fields of general type in terms of the motion groups. V.
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- algebra-valued functions. 3329: On the characterization of spectral operators.
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- Karpinskaja, N. N. 1954: (with Rybachov, M. V.) A method for solving the linear-programming problem with an electronic model.
- Karpinskaya, I. N. = Karpinskaja, N. N.
- Karplus, R. 1897: (with Dragt, A. J.) Poles in coupled scattering amplitudes.
- Karpyan, V. I. 4755: (with Sagdeev, R.-Z.) The stability of the structure of a shock-wave front moving across a magnetic field in a rarefied plasma.
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- Kashiwabara, Shōbin. 2595: On the parallelisability under Riemannian metrics of direction fields over 3-dimensional manifolds. II.
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- Khinchine, A. Ia. = Hinčin, A. Ja.
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- Kitamura, Shin-ichi. 1564: (with Ikeda, Mineo and Matsumoto, Makoto) On the imbedding of spherically symmetric space times.
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- Kreisel, E.** 5901: (with Liebscher, E. and Treder, H.) Gravitationsfelder mit Nullstellen der Determinante der $g_{\mu\nu}$. II.
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- Kreisz, Heinz-Otto.** 1788: Über die Lösung von Anfangswertaufgaben für partielle Differentialgleichungen mit Hilfe von Differenzengleichungen.
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- Krylov, V. Ju.** 1067: An automaton which is asymptotically stable in a random medium.
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- v. Krzywoblocki, M. Z.** 5205: Integral operators in ordinary differential equations.
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- Krzyżński, Mirosław = Krzyżński, Mirosław.**
- Krzyżński, Mirosław.** 1402: Sur la solution fondamentale de l'équation linéaire normale du type parabolique dont le dernier coefficient est non borné. I. 1403: Sur la solution fondamentale de l'équation linéaire normale du type parabolique dont le dernier coefficient est non borné. II. 2363: Sur l'allure asymptotique des solutions des problèmes de Fourier relatifs à une équation linéaire parabolique.
- Kshirsagar, A. M.** 1693: Effect of non-centrality of the Bartlett decomposition of a Wishart matrix. 2621: Prediction from simultaneous equation systems and Wold's implicit causal chain model. 5517: Wilks' Λ criterion.
- Ku, Chao-hao = Ku, Chao-Hao.**
- Ku, Chao-Hao.** 3119: On reducibility of infinite groups of Cartan mappings. 353c: (with Li, Da-qian and Hou, Zong-yi) Discontinuous initial value problems for systems of quasi-linear hyperbolic equations. III. 353a: (with Li, Ta-chien and Hou, Tsung-yi) Discontinuous initial value problems for systems of quasi-linear hyperbolic equations. I. 353b: (with Li, Ta-chien and Hou,

- Teung-yi) Discontinuous initial value problems for systems of quasi-linear hyperbolic equations. II.
- Ku, Y. H. 3207: On nonlinear oscillations in electromechanical systems.
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- Kuczma, M. 4265: (with Kucharzewski, M.) Determination of geometric objects of the type $[2, 2, 1]$ with a linear homogeneous transformation formula. 4266: (with Kucharzewski, M.) On a system of functional equations occurring in the theory of geometric objects.
- Kudakova, R. V. 4214: Quasiperiodic solutions of non-linear systems of differential equations containing a small parameter.
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- Kulik, Stephen. 1745: The solution of two simultaneous equations.
- Kulikovskii, A. G. = Kulikovskii, A. G.
- Kulikovskii, A. G. 2769: On the structure of shock waves in magneto-hydrodynamics with arbitrary dissipation law. 5669: (with Iordanskii, S. V.) Stability of the higher correlation functions in a plasma.
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- Kunert, F. 4670: Some iterative methods of finding the eigenvalues of self-adjoint operators.
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- Künzi, Hans Paul. 5831: (with Oettli, Werner) Integer quadratic programming.
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- Ľupradze, V. D. 1808: ★Potential-theoretic methods in the theory of elasticity. 2684: (with Burduldze, T. V.) A general mixed boundary-value problem in elasticity theory and potential theory.
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- Kuran, Ū. 4124: Two theorems related to the class $H^p \log^+ H$.
- Kuratowski, K. = Kuratowski, K.
- Kuratowski, K. 4507: Characterization of regular lattices by means of the exponential topology.
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- Kurevliĭ, Ja. = Kurzweil, J.
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- Kusano, Takasi. 5269: On the Cauchy problem for a class of multi-component diffusion systems.
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- Kustaanheimo, Paul. 2907: Über die Bahnbestimmung aus zwei Beobachtungen. 981: (with Lehti, Raimo) A new astronomical effect of the general theory of relativity: The dilatation of the sidereal period of orbits with great eccentricity.
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- Kuttner, Brian. 4273: (with Ishiguro, Kazuo) On the Gibbs phenomenon for quasi-Hausdorff means.
- Kuvshinskii, R. V. = Kuvšinakii, E. V.
- Kuvšinakii, E. V. 5603: (with Aéro, É. L.) Continuum theory of asymmetric elasticity. The problem of "internal" rotation.
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- Kwan, Mel-ko. 5828: Graphic programming using odd or even points. 5829: Graphical method of the odd-and-even point.
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- Kwon, Kyung Whan. 2529: Product of euclidean spaces modulo an

- arc. 4537: Uniqueness of the open cone neighborhood. 1607: (with Raymond, Frank) Manifolds which are joins.
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- Lachlan, A. H. 4094: Standard classes of recursively enumerable sets.
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- Ladányi, K. 5710: On the nonlinear spinor theory.
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- Ladyženskaja, O. A. = Ladyženskaja, O. A.
- Ladyženskaja, O. A. 2336: Équations quasi-linéaires de types elliptique et parabolique. 5256: (with Ural'ceva, N. N.) Hölder continuity of solutions and their derivatives for linear and quasi-linear equations of elliptic and parabolic type.
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- Lallement, Gérard. 4046: Sur les homomorphismes d'un demi-groupe sur un demi-groupe complètement 0-simple.
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- Langer, J. 2895: Some exact solutions of the Plebański and Pollegri tetrade gravitational equations. 2856: (with Balian, R.) Analytic properties of the partition function near the normal-to-superconducting phase transition.
- Langhaar, H. L. 2700: (with Liu, C. K.) Dilatationless circumferential modes of vibration of a ring.
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- Lapukhin, I. T. 1783: Concerning the solution of difference approximations of biharmonic equations by the method of successive approximations.
- Larcher, H. 216: A geometric characterization for a class of discontinuous groups of linear fractional transformations.
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- Larkin, A. I. 5737: (with Vaks, V. G.) Amplitude singularities at $l = -1$ in the Bethe-Salpeter equations.
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- Latyšev, V. N. 116: Two remarks on PI -algebras. 117: On the choice of basis in a T -ideal.
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- Laurent, Pierre-Jean. 3540: Formules de quadrature approchée sur domaines rectangulaires convergentes pour toute fonction intégrable Riemann. 4675: Évaluations d'intégrales par une méthode de Monte-Carlo. Application à la résolution d'équations intégrales.
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- Lax, Peter D. 3549: Survey of stability of different schemes for solving initial value problems for hyperbolic equations.
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- Layman, J. W. 1753: A finite difference exponential approximation method.
- Layzer, David. 2848: Proof of Moszkowski's formula for the variance of term energies in an electronic configuration of the form l^n . 4941: A preface to cosmogony. I. The energy equation and the virial theorem for cosmic distributions.
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- Lazarev, V. G. 2023: (with Pii', E. I.) The simplification of pulse-potential forms. 5892: (with Pii', E. I.) Some classes of finite automata.
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- Lee, Benjamin W. 4856: (with Klein, Abraham) Does spontaneous breakdown of symmetry imply zero-mass particles? 3753: (with Baker, M. and Johnson, K.) Broken symmetries and zero-mass bosons. 4828: (with Brown, Lowell; Fivel, Daniel I. and Sawyer, Raymond F.) Fredholm method in potential scattering and applications to complex angular momentum.
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- Lee, K. S. H. 2781: (with Papas, C. H.) Doppler effects in inhomogeneous anisotropic ionized gases.
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- Lee, T. M. 5634: Dilatation constants and complex ratio from forced vibration of a free viscoelastic sphere.
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- Lefort, G. 3044: ★Algèbre et analyse: Exercices. Illustration du Cours de Mathématiques Générales.
- Lefschetz, S. 2013: On indirect automatic controls.
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- Lehmer, E. 5578: (with Lehmer, D. H.; Mills, W. H. and Selfridge, J. L.) Machine proof of a theorem on cubic residues.
- Lehner, J. 5045: (with Newman, M.) Weierstrass points of $\Gamma_g(n)$.
- Lehrer-Ilamed, Yehiel. 145: On the direct calculations of the representations of the three-dimensional pure rotation group.
- Lehti, Raimo. 981: (with Kustaanheimo, Paul) A new astronomical effect of the general theory of relativity: The dilatation of the sidereal period of orbits with great eccentricity.
- Leibovitz, Clement. 1961: (with Peres, Asher) Energy balance of uniformly accelerated charge.
- Leibowitz, M. A. 3640: (with Ackerberg, R. C.) The vibration of a conducting wire in a magnetic field.
- Leichtweis, Kurt. 3371: Über eine Art von Krümmungsinvarianten beliebiger Untermannigfaltigkeiten des n -dimensionalen euklidischen Raums.
- Leighton, Walter. 3210: On the construction of certain Liapunov functions.
- Leindler, L. 418: Über unbedingte Konvergenz der Orthogonalreihen mit strukturellen Bedingungen. 1439: Conditions de structure pour certains modes de convergences des séries de Fourier. 4296: On unconditional convergence of trigonometric series. 4297: Über Approximation mit Orthogonalreihenmitteln unter strukturellen Bedingungen. 2395: (with Pál, L. G.) Über die Konvergenz von Partialsummen der Orthogonalreihen.
- Leindler, L. = Leindler, L.
- Leite Lopes, Maria Laura Mousinho. See Mousinho Leite Lopes, Maria Laura.
- Leitmann, George. 1803: Some remarks on Hamilton's principle. 5868: Variational problems with bounded control variables. 5876: Propulsive efficiency of rockets. 4191: (with Petty, C. M.) A boundedness theorem for a nonlinear, nonautonomous system.
- Lekkerkerker, C. G. 2087: Homogeneous simultaneous approximations.
- Lemmon, E. J. 27: (with Dummett, M. A. E.) Modal logics between $S4$ and $S5$.
- Leskol, D. N. 1163: On the representation of prime numbers by polynomials of two variables.
- Leont'ev, A. F. 4090: On the growth of functions defined by Dirichlet series and by certain other more general series.
- Leray, Jean. 1084: La résolution des problèmes de Cauchy et de Dirichlet au moyen du calcul symbolique et des projections orthogonales et obliques. 1091: Résidus.
- Leruste, Philippe. 3670: (with Andrade e Silva, Joao; Fer, Francis and Lochak, Georges) Quantification, stationnarité et non-linéarité.
- Lesieur, L. 3061: (with Croisot, R.) Cœur d'une module.
- Lealie, F. M. 1854: The motion of a flat plate from rest in a viscoelastic liquid.
- Lesohin, M. M. 148: Regularity of systems with exterior multiplication with regular first component. 149: On the completeness of systems with exterior multiplication. 1244: Homomorphisms into regular semigroups.
- Letov, A. M. 1348: The analytic design of controls. V. Further developments in the problem.
- Levaev, A. E. 5799: (with Ivanitkaya, O. S.) Generalized tetrad formulation of general relativity theory (G.R.T.). 5800: (with Vorontsov, V. I.) The orientability of the physical tetrad in relativistic electrodynamics.
- Levashev, A. E. = Levaev, A. E.

- Levey, H. C. 5844: (with Perret, C. J.) The theory of uncatalysed linear expanding systems.
- Levi, Peretz. 955: (with Engelman, Robert) The line shape in a harmonic lattice.
- Levin, A. Ju. 2278: On linear second-order differential equations.
- Levin, B. Ja. 217: ★Distribution of zeros of entire functions.
- Levin, F. S. 1914: Inclusion of exchange effects in collision theory.
- Levin, J. J. 437: (with Nohel, J. A.) Note on a nonlinear Volterra equation. 3009: (with Shatz, S. S.) Riccati algebras.
- Levin, M. 717: Quadrature formulae for a class of functions. 1765: Construction of some best quadrature formulas.
- Levine, Arnold. See Levine, Leon, #5579.
- Levine, Harold I. 598: Homotopic curves on surfaces. 2560: The singularities, S_1^* .
- Levine, Leo M. 4239: A uniqueness theorem for the reduced wave equation.
- Levine, Leon. 5579: ★Methods for solving engineering problems using analog computers.
- Levine, Norman. 5413: Inherited properties of functions in quotient spaces.
- Levinson, N. 171: Generalization of an inequality of Ky Fan. 639: (with McKean, H. P., Jr.) Weighted trigonometrical approximation on E^1 with application to the germ field of a stationary Gaussian process.
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- Lévy, Azriel. 21: On the principles of reflection in axiomatic set theory.
- Lévy, M. 859: Non-local quantum electrodynamics.
- Levy, Marc. 1747: Quelques remarques sur les erreurs dans la méthode de Lanczos pour la recherche des valeurs propres d'une matrice.
- Lévy-Bruhl, Jacques. 2137: Sur les catégories ordonnées.
- Lewandowski, Zdzisław. 200: Sur l'identité de certaines classes de fonctions univalentes. II.
- Levin, Jacques. 2147: (with Bachmuth, Seymour) The Jacobi identity in groups.
- Lewin, Myrna. 1840: The effect of vertical barriers on progressing waves.
- Lewis, D. C. 3891: (with Mendelson, P.) Contributions to the theory of optimal control. A general procedure for the computation of switching manifolds.
- Lewis, D. J. 1160: (with Chowla, P.; Chowla, S. and Dunton, M.) Diophantine equations in quadratic number fields.
- Lewis, J. T. 835: (with Judge, D.) On the commutator $[L_\alpha, \varphi]$.
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- Lewittes, Joseph. 206: Riemann surfaces and the theta function. 4102: Automorphisms of compact Riemann surfaces.
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- Li, Da-qian = Li, Ta-chien.
- Li, Ta-chien. 353e: (with Gu, Chao-hao and Hou, Zong-yi) Discontinuous initial value problems for systems of quasi-linear hyperbolic equations. III. 353a: (with Ku, Chao-hao and Hou, Taung-yi) Discontinuous initial value problems for systems of quasi-linear hyperbolic equations. I. 353b: (with Ku, Chao-hao and Hou, Taung-yi) Discontinuous initial value problems for systems of quasi-linear hyperbolic equations. II.
- Liang, Shih-ting. 441: On a singular integral equation.
- Libby, Paul A. 5654: (with Fox, Herbert) Some perturbation solutions in laminar boundary-layer theory. I. The momentum equation.
- Libera, Richard J. 4099: Some radius of convexity problems.
- Liberman, L. H. 1464: On the stability of solutions of integro-differential equations. 1465: Integro-differential equations with lagging argument and the stability of their solutions. 1466: The problem of stability of the solutions of integro-difference equations.
- Libermann, Paulette. 565: Sur quelques exemples de structures pfaffiennes et presque cosymplectiques.
- Liboff, R. L. 2878: The influence of momentum exchange on the propagation of disturbances in a multi-component fluid.
- Lichnerowicz, André. 564: Théorèmes de réductivité sur des algèbres d'automorphismes. 967: Propagateurs et commutateurs en relativité générale. 1085: Variétés localement kählériennes. 1949: Propagateurs et commutateurs en relativité générale. 2889: (with Moret-Bailly, Françoise) Théorie du neutrino et transformations \mathcal{S} , \mathcal{P} , \mathcal{T} sur un espace-temps courbe. 3133: (with Cartan, H.; Dixmier, J.; Revuz, A. and Dubreil, P.) ★Problèmes de mesure.
- Licht, A. L. 2823: Regge fields.
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- Lick, Wilbert J. 2756: The propagation of small disturbances in a radiating gas.
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- Lieb, Elliott H. 5750: (with Liniger, Werner) Simplified approach to the ground-state energy of an imperfect Bose gas. III. Application to the one-dimensional model.
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- Lieu, Bui Trong. See Bui Trong Lieu.
- Lihoded, A. I. 2702: On the steady-state oscillations of a plate simply supported along the edge.
- Licht, M. K. 3530: Conditionality in the problem of the minimum of a quadratic functional. 4116: A remark on the theorem of Paley and Wiener on entire functions of finite type.
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- Likhoded, A. I. = Lihoded, A. I.
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- Lin, C. C. 4719: (with Reid, W. H.) Turbulent flow, theoretical aspects.
- Lin, Chun. 728: A discussion of some questions regarding difference methods for systems of nonlinear differential equations.
- Lindberg, John A., Jr. 2460: On the completion of tractable normed algebras. 2461: (with Heuer, G. A.) Algebraic extensions of continuous function algebras.
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- Linder, A. 4629: Trennverfahren bei qualitativen Merkmalen. 4596: (with Bertschinger, André and Soom, Erich) Formation aux applications industrielles de la statistique en Suisse.
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- Liniger, Werner. 5750: (with Lieb, Elliott H.) Simplified approach to the ground-state energy of an imperfect Bose gas. III. Application to the one-dimensional model.
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- Jakubović, V. A. Letter to the editor: On an erroneous paper of N. I. Gavrilov.
- van Lint, J. H. 2100: (with de Bruijn, N. G.) On the asymptotic behaviour of some Dirichlet series with a complicated singularity. 2995: (with de Bruijn, N. G.) On the number of integers $\leq x$ whose prime factors divide n .
- Lions, J. L. = Lions, Jacques-Louis.
- Lions, Jacques-Louis. 351: Sur certains systèmes hyperboliques non linéaires. 1085: Les travaux de Deny en théorie du potentiel. 1088: Espaces de Beppo-Levi et quelques applications. 1088: Problèmes aux limites relatifs à des équations de type elliptique. 1091: Équations de Navier-Stokes. 1513: On a trace problem. 2429: Sur les espaces d'interpolation; dualité. 4395: Remarques sur les espaces d'interpolation et les problèmes aux limites. 1790: (with Lattès, R.) Sur une classe de problèmes aux limites intervenant en physique des réacteurs. 4230: (with Magenes, E.) Problèmes aux limites non homogènes. VI. 2363: (with Magenes, Enrico) Remarque sur les problèmes aux limites pour opérateurs paraboliques.
- Lipinaki, J. S. 1264: Une simple démonstration du théorème sur la dérivée d'une fonction de sauts.
- Lipkin, Daniel M. 5683: Existence of a new conservation law in electromagnetic theory.
- Lippmann, R. A. 1174: Note on irregular discriminants.
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- Littlewood, J. E. 603: A theorem on fixed points.
- Littman, Walter. 1398: (with Friedman, Avner) Partially characteristic boundary problems for hyperbolic equations. 4228: (with Stampachia, G. and Weinberger, H. F.) Regular points for elliptic equations with discontinuous coefficients.
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- Liu, Chung Laung. 1046: A property of partially specified automata. 5894: The memory orders of states of an automaton.
- Liu, I-Ch'en. 3700: (with Todorov, I. T.) Singularities of some Feynman graphs.
- Liu, Yi-Cheng = Liu, I-Ch'en.
- Liubarskii, G. Ia. = Ljubarskii, G. Ja.
- Ljubimov, G. A. = Ljubimov, G. A.
- Liulevicius, Arunas. 617: Zeros of the cohomology of the Steenrod algebra.
- Livartovskii, I. V. 4209: A generalization of the second method of Lyapunov.
- Ljanić, L. M. 4752: Scattering of sound by a cylindrical shell in a moving medium.
- Ljamsin, A. I. 2979: An example of a pair of orthogonal Latin squares of order ten.
- Ljance, V. E. 2276: The solution of certain boundary-value problems by the Fourier method. 2277: A non-selfadjoint differential operator of second order on a semi-axis. 3327: Unbounded operators commuting with the resolution of the identity.
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- Ljubarskii, G. Ja. 2770: On the existence of shock waves of small intensity. 5233: (with Rabotnikov, Ju. L.) On the theory of differential equations with random coefficients.
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- Ljubić, Ju. I. 2463: Solvability conditions for the abstract Cauchy problem. 3342: Density conditions on the initial manifold for the abstract Cauchy problem. 3938: Estimates for the number of states arising from the determination of an indeterminate autonomous automaton.
- Ljubimov, Ja. K. 3993: (with Aronović, G. V.; Beljustina, L. N. and Kartvelishvili, N. A.) Application of the methods of the theory of oscillations to stability problems of steady-state operation of hydroelectric stations and power systems.
- Ljubimov, G. A. 2764: On the formulation of the problem of the magnetohydrodynamic boundary layer.
- Ljunggren, W. 2082: On the diophantine equation $y^2 - k = x^2$. 5035: On the Diophantine equation $Cx^2 + D = y^2$. 5059: On the irreducibility of certain lacunary polynomials.
- Ljusternik, L. A. 4427: ★Convex figures and polyhedra. 1733: (with Červonenkis, O. A. and Jampol'skii, A. R.) ★Mathematical analysis. Computation of the elementary functions.
- Lloyd, J. R. 1824: (with Miklowitz, Julius) On the use of double integral transforms in the study of dispersive elastic wave propagation.
- Lloyd, S. P. 2451: On extreme averaging operators. 4071: On finitely additive set functions. 4083: An adjoint ergodic theorem.
- Lochak, Georges. 4202: Sur le comportement d'un mouvement asymptotiquement stable soumis à des perturbations aléatoires. 3670: (with Andrade e Silva, Joao; Fer, Francis and Leruste, Philippe) Quantification, stationnarité et non-linéarité.
- Locher, Milan P. 38: On the combinatorial derivation of the coefficients in the product density method.
- Lochs, Gustav. 1730: Die ersten 968 Kettenbruchnennern von π .
- Lodato, Michael W. 4513: On topologically induced generalized proximity relations.
- Loewner, Charles. 3406: On semigroups in analysis and geometry. 5186: (with Korovkar, J.) Approximation on an arc by polynomials with restricted zeros.
- Loginov, P. P. 1805: A description of the mechanics of forces by equations with retarded argument.
- Logunov, A. A. 886: (with Tavkhelidze, A. N.) Quasi-optical approach in quantum field theory. 867: (with Nguyen Van Hieu; Todorov, I. T. and Khrustalev, O. A.) Asymptotic relations between cross sections in local field theory. 1895: (with Tavkhelidze, A. N.; Todorov, I. T. and Khrustalev, O. A.) Quasi-potential character of the scattering amplitude.
- Lohin, V. V. 1807: (with Sedov, L. I.) Nonlinear tensor functions of several tensor arguments.
- Loiseau, Jean. 1966: ★Notre univers dans un espace à quatre dimensions spatiales (théorie unitaire). 1967: La mécanique rationnelle sur un espace à trois dimensions dans un espace Riemannien à quatre dimensions.
- Loizelier, E. Blanco. See Blanco Loizelier, E.
- Lojasiewicz, S. 2326: Théorème de Fatou pour les équations elliptiques. 4066: Une propriété topologique des sous-ensembles analytiques réels.
- Lofko, M. S. 942: (with Wang, H. S. C.) Nonlinear transverse waves in plasmas.
- Lokhin, V. V. = Lohin, V. V.
- Lombardi, Lionello A. 2469: A general solution of Tonelli's problem of the calculus of variations.
- Lombet-Goffart, J. 272: Étude des zéros complexes des solutions d'équations différentielles linéaires du second ordre, dépendant d'un paramètre η ($|\eta| > N$).
- Lomont, J. S. 2842: (with Moses, H. E.) The representations of the inhomogeneous Lorentz group in terms of an angular momentum basis. 3116: (with Moses, H. E.) Exponential representation of complex Lorentz matrices. 3667: (with Moses, H. E.) The assignment of wave functions to energy densities and probability densities.
- Longuet-Higgins, M. S. 1654: The distribution of intervals between zeros of a stationary random function. 1638: The effect of nonlinearities on statistical distributions in the theory of sea waves.
- Loos, Hendricus G. 1937: Spin connection in general relativity. 1958: Spin connection in terms of Dirac operators.
- Lopes, Maria Laura Mousinho Leite. See Mousinho Leite Lopes, Maria Laura.
- Loplic, A. M. 268: The solution of a special system of differential equations with constant coefficients. 4446: Families of lines of force in a dimensionless affine space.
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- Losik, M. V. 5410: Kawaguchi spaces associated with Klein spaces.
- Loud, W. S. 4399: Behavior of the period of solutions of certain plane autonomous systems near centers. 4215: Locking-in in perturbed autonomous systems.
- Louhivaara, Ilppo Simo = Louhivaara, Ilppo Simo.
- Louhivaara, Ilppo Simo. 306: Ueber die Differentialgleichung erster Ordnung in normierten linearen Räumen. 4065: Applications of absolute analysis to vector analysis.
- Louisell, W. H. 832: Amplitude and phase uncertainty relations.
- Lovelock, D. 5787: Classical relativistic dynamics of "spin" particles.
- Low, F. E. 4830: (with Gell-Mann, M.; Goldberger, M. L.; Marx, E. and Zachariasen, F.) Elementary particles of conventional field theory as Regge poles. III. 4831: (with Gell-Mann, M.; Goldberger, M. L.; Singh, V. and Zachariasen, F.) Elementary particles of conventional field theory as Regge poles. IV.
- Lowdenslager, David. 487: (with Helson, Henry) Invariant subspaces.
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- Lowndes, J. S. 1453: Note on the generalized Mehler transform.
- Lowry, B. A. 4898: (with Davis, H. T. and Rice, S. A.) Perturbation calculation of mixed pair correlation functions.
- Loyes, R. M. 1254: Fourier transforms and probability theory on a non-commutative locally compact topological group.
- Lu, Chien-ke = Lu, Chien-Ke.
- Lu, Chien-Ke. 5607: The periodic Riemann boundary value problem and its applications to the theory of elasticity.
- Lubkin, E. 5788: A critique of the space-time variables in physical theory.
- Luce, R. Duncan. 1015: (with Bush, Robert R. and Galanter, Eugene, co-editors) ★Handbook of mathematical psychology. Vol. I, Chapters 1-8. 1016: (with Bush, Robert R. and Galanter, Eugene, co-editors) ★Handbook of mathematical psychology. Vol. II, Chapters 9-14.
- Lučka, A. Ju. 4316: Approximate solution of Fredholm integral equations by the method of averaged functional corrections. 5307: Approximate solution of linear operator equations in a Banach space by Ju. D. Sokolov's method.
- Lüders, Gerhart. 2855: Kinematische Analyse des Grundzustandes in der Theorie der Supraleitung.
- Ludford, G. S. S. 5690: (with Singh, M. P.) The hydromagnetics of an ellipsoid moving in a cross-field.
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- Luh, Jiang. 5083: A characterization of regular rings.
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- Lumer, Gunter. 1455: On the isometries of reflexive Orlicz spaces. 1509: Analytic functions and Dirichlet problem.
- Lumiste, Ju. = Lumiste, Ü.
- Lumiste, Ü. 535: The theory of two-dimensional minimal surfaces. III. The fundamental theorem and bending. 536: The theory of two-dimensional minimal surfaces. IV. Surfaces with circles of curvature.
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- Lune, G. L. 2190: On the singularities of Taylor-Dirichlet series.
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- Lunelli, L. 512: (with Sce, M.) * k -archi completi nei piani proiettivi desarguesiani di rango 8 e 16.
- Lur'e, A. I. = Lur'e, A. I.
- Lur'e, A. I. 980: The moment of the gravitational forces acting on a satellite. 4934: Free fall of a material point in a satellite cabin. 309: (with Alberman, M. A.) Methods of determining periodic motions in piecewise linear systems. (A survey of the work of Soviet authors).
- Lur'e, K. A. 1801: Liouville's and Stäckel's theorems for hyperbolic variational problems. 5863: The Mayer-Bolza problem for multiple integrals and the optimization of the performance of systems with distributed parameters.
- Luxemburg, W. A. J. 1273: Addendum to "On the measurability of a function which occurs in a paper by A. C. Zaenen". 1481: (with Zaenen, A. C.) Notes on Banach function spaces. V. 5324a: (with Zaenen, A. C.) Notes on Banach function spaces. VI, VII. 5324b: (with Zaenen, A. C.) Notes on Banach function spaces. VIII.
- Luzzatto, G. 1874: (with Beltrametti, E. G.) Rotation matrices corresponding to complex angular momenta.
- Lyamshev, L. M. = Ljamshev, L. M.
- Lyddane, R. H. 982: Small eccentricities or inclinations in the Brouwer theory of the artificial satellite.
- Lykova, O. B. 296: A study of the solutions of non-linear, almost integrable systems by the method of integral manifolds. 5236: A study of the solutions of a system of $n+m$ non-linear differential equations in the neighbourhood of an integral manifold. 5237: (with Mitropol'skii, Ju. A.) An integral manifold of non-linear differential equations containing slow and fast motions.
- Lyndon, Roger C. 2052: Metamathematics and algebra: An example.
- Lyones, J. N. 1762: (with Mustard, D. and Blatt, J. M.) Numerical quadrature in n dimensions.
- Lynn, M. Stuart. 5563: On the round-off error in the method of successive over-relaxation.
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- Lyusternik, L. A. = Ljusternik, L. A.
- Macae, V. I. 1495: A method of estimation for resolvents of non-selfadjoint operators. 2444: Several theorems on completeness of root subspaces of completely continuous operators.
- Macbeath, A. M. 4058: Groups of homeomorphisms of a simply connected space.
- MacCallum, Crawford. 957: Kinetic integral solutions of the Boltzmann equation.
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- Macdonald, J. Ross. 4698: (with Barlow, Carl A., Jr.) Relaxation retardation, and superposition.
- Macfarlane, A. J. 3665: (with Jordan, T. F. and Sudarshan, E. C. G.) Hamiltonian model of Lorentz invariant particle interactions. 3767: (with Mukunda, N. and Sudarshan, E. C. G.) Electromagnetic and decay properties of G_2 multiplets. 4857: (with Mukunda, N. and Sudarshan, E. C. G.) Generalized Shmushkevich method: Proof of basic results. 1908: (with Sudarshan, E. C. G. and Dullemond, C.) Weyl reflections in the unitary symmetry theory of strong interactions.
- MacGregor, Thomas H. 2205: A covering theorem for convex mappings. 2206: A class of univalent functions.
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- MacKenzie, Robert E. 4462: (with Auslander, Louis) ★Introduction to differentiable manifolds.
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- Maezawa, S. 2291: A perfect Fourier series solution for the steady forced vibration of a piecewise-linear system.
- Magari, Roberto. 501: Su una classe di simboli atta a rappresentare gli elementi di un piano grafico e su un teorema di riduzione a forma normale. 3365: Su certe strutture algebriche associate ai piani grafici autopolari.
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- Maghout, Khaled. 1985: Applications de l'algèbre de Boole à la théorie des graphes et aux programmes linéaires et quadratiques.
- Mahler, Kurt. 192: On two extremum properties of polynomials. 2194: A remark on a paper of mine on polynomials.
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- Manjeron, D. = Mangeron, D.
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- Marinčuk, A. E. 3829: (with Moskalenko, V. A.) Thermodynamics of a crystal lattice.
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- Massa, Emilio. 5554: Sulla determinazione di autovalori con moduli poco diversi e delle relative autoeigenfunzioni mediante procedimento di iterazione. 5627: Effetto di stati piani di coazione sulle vibrazioni libere con piccola inflessione di piastra circolare. 5628: Sulle vibrazioni libere con inflessione non piccola di piastra circolare sottoposte a stati piani di coazione.
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- Matsuzaka, Y. 5276: (with Borwein, D.) On multiplication of Cesàro summable series.
- Matsushima, Yōzo = Matsushima, Yōzō.
- Matsushima, Yōzō. 1088: Pseudo-groupes de Lie transitifs. 1629: On the first Betti number of compact quotient spaces of higher-dimensional symmetric spaces.
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- Matthes, Klaus. 3479: Stationäre zufällige Punktfolgen. I. 3480: Unbeschränkt teilbare Verteilungsgesetze stationärer zufälliger Punktfolgen. 5477: (with Kerstan, Johannes) Stationäre zufällige Punktfolgen. II.
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- Maurin, L. 495: (with Maurin, K.) Nuklearität gewisser Rellich-Sobolev'schen Einbettungen. Anwendung auf Spektraltheorie der Differentialoperatoren.
- Mautner, Friedrich I. 1091: Théorie des idéaux dans certaines algèbres d'un groupe.
- Mavridēs, Stamatia. 1942: Mouvement d'une particule d'épreuve en théorie euclidienne de la gravitation. 2890: Vérifications expérimentales et théorie euclidienne du champ de gravitation. 5998: Trajectoires des satellites dans le champ de gravitation d'une sphère en rotation, en théorie minkowskienne linéaire.
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- Mikhailovskii, A. B. = Mihalovskii, A. B.
- Mikhaylov, I. N. = Mihallov, I. N.
- Miklowitz, Julius. 1824: (with Lloyd, J. R.) On the use of double integral transforms in the study of dispersive elastic wave propagation. 1823: (with Rosenfeld, R. L.) Wave fronts in elastic rods and plates.
- Mikolás, M. 1445: Über die Dirichlet-Summation Fourierscher Reihen.
- Mikusinski, J. = Mikusiński, J.
- Mikusiński, J. 3325: (with Sikoraki, R.) ★Théorie élémentaire des distributions.
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- Miles, G. A. 1772: (with D'Sylva, E.) The S.S.O.R. iteration scheme for equations with σ_1 ordering. 1777: (with Stewart, K. L. and Tee, G. J.) Elementary divisors of the Liebmann process.
- Miles, John W. 2734: The Cauchy-Poisson problem for a rotating liquid. 4728: Free-surface oscillations in a slowly rotating liquid. 1836: (with Ball, F. K.) On free-surface oscillations in a rotating paraboloid.
- Miles, Philip. 5354: B^* algebra unit ball extremal points.
- Millin, I. M. 1283: The area method in the theory of univalent functions.
- Miljutin, A. A. 3897: (with Dubovickii, A. Ja.) Some optimal problems for linear systems. 5361: (with Dubovickii, A. Ja.) Extremum problems with certain constraints.
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- Miller, Rupert G., Jr. 635: Stationarity equations in continuous time Markov chains. 1695: (with Lieberman, Gerald J.) Simultaneous tolerance intervals in regression.
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- Mil'man, D. P. 1478: (with Mil'man, V. D.) Some geometric properties of non-reflexive spaces.
- Mil'man, V. D. 1478: (with Mil'man, D. P.) Some geometric properties of non-reflexive spaces. 5466: (with Mykalis, A. D.) Random shocks in linear dynamical systems.
- Milnor, J. 622: Spin structures on manifolds. 2544: On axiomatic homology theory. 4547: On the Betti numbers of real varieties. 4553a: Topological manifolds and smooth manifolds. 4553b: Microbundles. I. 5403: Eigenvalues of the Laplace operator on certain manifolds.
- Mil'stein, G. N. 4966: An application of successive approximations for solving an optimal problem.
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- Minin, I. N. 991: Radiation diffusion in a semi-infinite medium with non-isotropic scattering.
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- Miranker, Willard L. 1789: A free boundary problem for the wave equation.
- Mirkil, H. 2466: (with de Leeuw, K.) A priori estimates for differential operators in L_∞ norm.
- Mirsky, I. 2095: Vibrations of orthotropic, thick, cylindrical shells.
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- Misner, Charles W. 974: The method of images in geometrostatics.
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- Mitrinović, R. S. 2260: (with Mitrinović, D. S.) ★Tableaux d'une classe de nombres reliés aux nombres de Stirling. III.
- Mitropolski, Iouri = Mitropol'skij, Ju.
- Mitropol'skij, Ju. 1355: (with Bogolioubov, Nicolas) ★Les méthodes asymptotiques en théorie des oscillations non linéaires. 1356: (with Bogoljubov, N. N.) ★Asymptotic methods in the theory of non-linear oscillations. 5235: (with Bogoljubov, N. N.) The method of integral manifolds in non-linear mechanics. 5237: (with Lykova, O. B.) An integral manifold of non-linear differential equations containing slow and fast motions.
- Mitten, L. G. 1718: (with Beightler, C. S.) Design of an optimal sequence of interrelated sampling plans.
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- Moalla, M. Fatma = Moalla, Fatma.
- Mocanu, G. 5177: (with Boboc, N.) Sur la notion de métrique harmonique sur une surface riemannienne hyperbolique.
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- Monteiro, Antonio = Monteiro, António.
- Monteiro, António. 18: Matrices de Morgan caractéristiques pour le calcul propositionnel classique. 4959: Linéarisation de la logique positive de Hilbert-Bernays.
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- Moon, Parry. 3647: (with Spencer, Domina Eberle) A new mathematical representation of alternating currents.
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- Moreau, Jean Jacques = Moreau, Jean-Jacques.
- Moreau, Jean-Jacques. 1476: Fonctionnelles sous-différentiables. 2426: Remarques sur les fonctions à valeurs dans $[-\infty, +\infty]$ définies sur un demi-groupe. 2427: ★Fonctions à valeurs dans $[-\infty, +\infty]$; notions algébriques. 3307: Sur la fonction polaire d'une fonction semi-continue supérieurement. 4336: Théorèmes "inf-sup".
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- Morley, L. S. D. 2691: Variational reduction of the clamped plate to two successive membrane problems with an application to uniformly loaded sectors.
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- Moroney, Richard M. = Moroney, Richard M., Jr.
- Moroney, Richard M., Jr. 4173: A class of characteristic-value problems. 2507: (with McCord, James R., III) ★Introduction to probability theory.
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- Morse, T. F. 931: Energy and momentum exchange between non-equilibrium gases. 2865: Kinetic model for gases with internal degrees of freedom. 935: (with McCune, J. E. and Sandri, G.) On the relaxation of gases toward continuum flow.
- Moseenkov, B. I. 3892: An investigation of non-stationary single-frequency regimes of oscillations in systems with distributed parameters.
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- Muradyan, R. M. = Muradjan, R. M.
- Muramatsu, Tosinobu. 4231: On the uniqueness of the Cauchy problem for elliptic systems of partial differential equations.
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- Nachbin, Leopoldo. 4286: Weighted approximation over topological spaces and the Bernstein problem over finite dimensional vector spaces.
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- Nagorskii, G. A. 2816: (with Arutyunyan, V. M. and Gol'dman, I. I.) Regge poles in the scattering from a δ potential.
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- Naimark, M. A. 4367: On commuting unitary operators in spaces with indefinite metric.
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- Nakanishi, Noboru. 2817: Invariant solutions of the exact Bethe-Salpeter equation in the general-mass case. 2818: Remarks on the double dispersion approach to the Bethe-Salpeter equation. 2819: External-mass singularity.
- Nakano, H. 3833: A variation principle in the quantum theory of irreversible processes.
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- Nambu, Y. 1912: (with Pascual, P.) Self-consistent models of strong interaction with chiral symmetry. 1894: (with Sugawara, Masao) High-energy behavior of total cross sections. 2830: (with Sugawara, Masao) Double phase representation of analytic functions.
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- Nanda, V. C. 5051: On the genera of quadratic and hermitian forms over an algebraic number field.
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- Naršev, A. 4232: The first boundary-value problem for elliptic equations which degenerate at the boundary.
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- Nariboli, G. A. 2631: The growth and propagation of waves in hypo-elastic media. 3596: (with Nyayadhi, V. B.) One-dimensional thermo-elastic wave.
- Narkiewicz, W. 2674: On a summation formula of E. Cohen. 2994: On a class of arithmetical convolutions. 5020: On a certain class of abstract algebras.
- Narlikar, J. V. 1974: Newtonian universes with shear and rotation. 2897: (with Hoyle, F.) Time symmetric electrodynamics and the arrow of time in cosmology.
- Nash-Williams, C. St. J. A. 4541: Decomposition of finite graphs into forests.
- Năstase, Adriana. 806: (with Săndulescu, Șerban) Le problème mixte de l'aile triangulaire en mouvement conique d'ordre supérieur.
- Năstase-Ghia, Adriana = Năstase, Adriana.
- Natelson, Michael. 4905: (with Shure, Fred) Anisotropic scattering in half-space transport problems.
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- Naur, Peter. 1727: (with Gram, Christian and Poulsen, Ebbo Thue) Partial differential equations.
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- Nemenman, M. E. 1642: (with Margolin, M. S.) On the number of transpositions in a minimal decomposition of a permutation.
- Németh, A. 103: (with Negrescu, L. and Rus, T.) Sur les solutions positives d'un système d'équations linéaires.
- Nemirovskii, A. S. 1024: (with Volkonskii, V. A.) The systematic error of a discrete multiplier-integrator.
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- Nersesjan, A. B. 1342: Expansion in eigenfunctions of some non-selfadjoint boundary problems. 4317: On the theory of integral equations of Volterra type. 2396: (with Džrbaijan, M. M.) On the structure of certain special biorthogonal systems.
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- von Neumann, John. 1100: ★Collected works. Vol. I: Logic, theory of sets and quantum mechanics. 1101: ★Collected works. Vol. II: Operators, ergodic theory and almost periodic functions in a group. 1102: ★Collected works. Vol. III: Rings of operators. 1103: ★Collected works. Vol. IV: Continuous geometry and other topics. 1104: ★Collected works. Vol. V: Design of computers, theory of automata and numerical analysis. 1105: ★Collected works. Vol. VI: Theory of games, astrophysics, hydrodynamics and meteorology.
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- Nevzgliyadov, V. G. 3850: Relativistic theory of motion in the external field for a system with internal degrees of freedom.
- Nevzgliyadov, V. G. = Nevzgliyadov, V. G.
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- Nguyêndinhgoc. 619: Sur les espaces fibrés et les prolongements.
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- Nguyen-Van-Hieu = Nguyen Van Hieu.
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- Nigam, H. N. 435: On generalised Laplace transform of two variables.
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- Nikodem, Hansjörg. 3562: Ein elastischer Stoss als lineares Dreikörperproblem.
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- Nikol'skii, S. M. 1391: A variational problem. 3322: Functions with dominant mixed derivative, satisfying a multiple Hölder condition. 458: (with Matveev, I. V.) On the pasting of functions of class $H_p^{(\alpha)}$.
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- Niznik, L. P. 1511: Spectral structure and the self-adjointness of perturbations of differential operators with constant coefficients.
- Njåstad, Olav. 2523: Some properties of proximity and generalized uniformity.
- Nöbauer, Wilfried. 3950: (with Philipp, Walter) Die Einfachheit der mehrdimensionalen Funktionenalgebren.
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- Noether, G. E. 1685: Note on the Kolmogorov statistic in the discrete case.
- Noguchi, Hiroshi. 2556: A classification of orientable surfaces in 4-space. 2561: (with Kudo, Keiko) A geometric condition for smoothability of combinatorial manifolds.
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- Nordgren, R. P. 2692: (with Naghdi, P. M.) Propagation of thermoelastic waves in an unlimited shallow spherical shell under heating. 3601: (with Naghdi, P. M.) Finite twisting and expansion of a hole in a rigid/plastic plate.
- Nordieck, Arnold. 1771: Automatic numerical integration of ordinary differential equations.
- Norguet, François. 1091: Problème de Levi et plongement des variétés analytiques réelles (d'après un travail inédit de Hans Grauert). 3175: (with Andreotti, Aldo) Problème de Levi pour les classes de cohomologie.

- Norman, E. 3223: (with Wei, J.) On global representations of the solutions of linear differential equations as a product of exponentials.
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- Novikov, E. A. 1846: Random force method in turbulence theory.
- Novikov, I. D. 973: On the variation of the space-time metric in transition through singular spheres.
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- Novosel'cev, V. N. 1994: Determination of control algorithms for optimum-speed systems in the presence of random noise.
- Novoselov, E. V. 77: Integration on a bicomplex ring and its applications to number theory. 78: Foundations of classical analysis and of the theory of analytic functions in a polyadic region.
- Novosel'tsov, V. N. = Novosel'cev, V. N.
- Novotný, J. 1802: (with Pál, M.) Degenerate motion.
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- Nurekenov, T. 4325: A criterion for the complete continuity of the Urysohn integral operator.
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- Nyayadish, V. B. 3596: (with Nariboli, G. A.) One-dimensional thermo-elastic wave.
- Oates, Sheila. 5108: (with Powell, M. B.) Identical relations in finite groups.
- Obata, Jacques. 1971: Sur une relation masse-dispersion des vitesses pour un amas d'étoiles isotrope. 3067: Sur des relations exprimant les moments des vitesses pour un amas globulaire.
- Oberländer, Siegfried. 705: Die Methode der kleinsten Quadrate bei einem dreiparametrischen Exponentialansatz.
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- Ogievetskii, V. I. = Ogievetskii, V. I.
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- Okabayashi, Takao. 899: Pion as the field of heaviness.
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- Oliver, D. I. 3734: On the analytic continuation of the scattering amplitude through a three-particle cut. 4835: Unitarity and the evaluation of discontinuities. II.
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- Omarov, E. O. 5564: An approximate solution by the method of lines for the Dirichlet problem for a partial differential equation of elliptic type.
- Omeličenko, O. K. 2330: The distribution of zeros of eigenfunctions of a self-adjoint elliptic operator of the second order.
- Omnes, R. = Omnès, R.
- Omnès, R. 5739: Asymptotic behavior of partial-wave amplitudes.

- 1902: (with Froissart, M.) ★Mandelstam theory and Regge poles: An introduction for experimentalists.
- Onat, E. T. 1826: (with Breuer, S.) On uniqueness in linear viscoelasticity.
- O'Neill, R. 3298: (with Weiss, G.) The Hilbert transform and rearrangement of functions.
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- Ortega, James M. 710: An error analysis of Householder's method for the symmetric eigenvalue problem.
- Orzalesi, C. A. 1888: Invariance of quantum field theory under point transformations of the field variables. I. Boson fields.
- Osborn, J. Marshall. 1222: (with Kosier, Frank) Nonassociative algebras satisfying identities of degree three. 1221: (with Kleinfeld, E.; Kosier, F. and Rodabaugh, D.) The structure of associator dependent rings.
- Osiński, Z. 3209: Vibrations of a system with one degree of freedom with non-linear internal friction and relaxation.
- Osinikil, Z. = Osiński, Z.
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- Ostrovskii, G. M. = Ostrovskii, G. M.
- Ostrovskii, G. M. 2012: On a method of solving variational problems.
- Ostrovskii, L. A. = Ostrovskii, L. A.
- Ostrovskii, L. A. 4765: Electromagnetic waves in nonlinear media with dispersion.
- Otakezawa, Jun. 4836: (with Masuda, Naohiko and Yamazaki, Miwae) Analyticity of the production amplitude in the higher order diagram.
- Otsuka, Kayo. 3038: On existence of a resolved surface of a singular surface.
- Otto, Edward. 1793: ★Nomography.
- Oudin, Jean. 1992: Information apportée par la mesure en relation avec les coefficients de Bayes.
- Ovčarenko, I. E. 2440: An application of the method of directional functionals in the theory of precommuting operators.
- Ovshejan, S. G. 3250: Approximate solution of the Cauchy problem for certain differential equations with polynomial coefficients.
- Owen, D. B. 4608: ★Handbook of statistical tables.
- Owen, Guillermo. 5837: Tensor composition of non-negative games.
- Owens, O. G. 3246: A uniqueness theorem for the Helmholtz equation.
- Oxtoby, John C. 4084: On two theorems of Parthasarathy and Kakutani concerning the shift transformation.
- Ozawa, Mitsuru. 5175: Picard's theorem on some Riemann surfaces.
- Özbek, A. Riza. 5385: Über Weingarten'sche Isothermflächen, auf denen die Kurven festen Krümmungsmasses eine zueinander geodätisch parallele Kurvenschar bilden.
- Özoklav, Hasan. 1849: On rotational gas flows.
- Pasche, Ivan. 4239: Zu den Bernoullizahlen nach Nörlund und Adrian.
- Pac, P. Y. 885: A note on Regge trajectory in λp^4 theory.
- Pachner, Jaroslav. 1948: Mach's principle in classical and relativistic physics. 3846: Cosmological considerations on the relativity of inertia. 3870: Nonconservation of energy during cosmic evolution.
- Page, A. 2445: On type I semi-algebras of continuous functions.
- Pagurova, V. I. 2258: ★Tables of the incomplete gamma function.
- Pal, S. I. 788: Laminar jet mixing in radiation gasdynamics.
- Pair, Claude. 746: Justification théorique de l'utilisation des piles en compilation.
- Pais, A. 3730: (with Feinberg, G.) A field theory of weak interactions. II.
- Pál, L. G. 2395: (with Leindler, L.) Über die Konvergenz von Partialsummen der Orthogonalreihen.
- Palais, Richard S. 1633: Morse theory on Hilbert manifolds. 1634: (with Smale, S.) A generalized Morse theory.
- Palamà, Giuseppe. 2086: Problema di Prouhet-Tarry. II.
- Palamodov, V. P. 491: Regularization in a certain class of non-integrable functions and its connection with the problem of division. 492: Structure of polynomial ideals and their factor spaces in spaces of infinitely differentiable functions. 2335: On the singularity of fundamental solutions of hypo-elliptic equations. 4401: Fourier transforms of infinitely differentiable functions of rapid growth. 4402: Well-posed solvability conditions in the large for a certain class of equations with constant coefficients.
- Palazzi, A. 4602: Enseignement des applications de la statistique dans les pays européens. Rapport pour l'Italie.
- Pal'cev, B. V. 2500: A higher-dimensional analogue of Morera's theorem.
- Palczewski, B. 372: Existence and uniqueness of solutions of the Darboux problem for the equation
- $$\frac{\partial^2 u}{\partial x_1 \partial x_2} = f\left(x_1, x_2, x_3, u, \frac{\partial u}{\partial x_1}, \frac{\partial u}{\partial x_2}, \frac{\partial u}{\partial x_3}, \frac{\partial^2 u}{\partial x_1 \partial x_1}, \frac{\partial^2 u}{\partial x_1 \partial x_2}, \frac{\partial^2 u}{\partial x_1 \partial x_3}, \frac{\partial^2 u}{\partial x_2 \partial x_1}, \frac{\partial^2 u}{\partial x_2 \partial x_2}, \frac{\partial^2 u}{\partial x_2 \partial x_3}, \frac{\partial^2 u}{\partial x_3 \partial x_1}, \frac{\partial^2 u}{\partial x_3 \partial x_2}, \frac{\partial^2 u}{\partial x_3 \partial x_3}\right).$$
- 4223: On the uniqueness of solutions and the convergence of successive approximations in the Darboux problem under the conditions of the Krasnosielaki and Krein type. 4222: (with Pawelaki, W.) Some remarks on the uniqueness of solutions of the Darboux problem with conditions of the Krasnosielaki-Krein type.
- Pallu de La Barrière, Robert. 1087: L'existence de sous-espaces stables, d'après J. Wermer. 4967: Extension du principe de Pontrjagin au cas de liaisons instantanées entre l'état et la commande.
- Pal'mov, V. A. = Pal'mov, V. A.
- Pal'mov, V. A. 1063: Stability of optimal systems in the presence of disturbances. 5614: State of stress in the neighborhood of a rough surface of elastic bodies.
- Pan, Čen-dun = Pan, Cheng-Tung.
- Pan, Cheng-Tung. 73: On the representation of even numbers as the sum of a prime and a product of not more than 4 primes.
- Pan, T. K. 539: Conformal vector fields in compact Riemannian manifolds.
- Pan, V. Ja. 1435: On a problem of N. N. Luzin.
- Panaioti, B. N. 5344: Non-linear differential equations with small parameters in a Banach space.
- Pande, D. 5618: (with Bhargava, R. D.) Misfitting shells under uniform pressures.

- Pandres, Dave, Jr. 4984: Tensor virial theorems for variational wave functions.
- Pantulu, P. V. 3828: (with Bhagavantam, S.) Magnetic symmetry and physical properties of crystals.
- Pao, Yih-Hsing. 3586: (with Chao, C. C.) On the flexural motions of plates at the cut-off frequency.
- Papapetrou, Achille = Papapetrou, Achilles.
- Papapetrou, Achilles. 973: Quelques remarques sur les champs gravitationnels stationnaires. 4920: Quelques identités dans la relativité générale et dans la théorie du champ unifié. 4921: Champs gravitationnels stationnaires à symétrie axiale.
- Papas, C. H. 2781: (with Lee, K. S. H.) Doppler effects in inhomogeneous anisotropic ionized gases.
- Papert, D. 2185: A note on vector lattices and integration theory.
- Papert, Seymour. 4503: An abstract theory of topological subspaces.
- Papic, Pavle. 1591: (with Mardešić, Sibe) Continuous images of ordered compacta, the Sualin property and diadic compacta.
- Papon, P. 4887: (with Korringa, J.; Motchane, J.-L. and Yoshimori, A.) Derivation of the modified Bloch equations for spin systems.
- Pappert, Richard A. 937: Incoherent scatter from a hot plasma.
- Papy, Georges. 3078: ★Groups.
- Paradoksova, I. A. 440: A closed-form solution of a complete singular integral equation.
- Parasav, Ju. I. 5879: A problem in the analytic design of controllers.
- Pardubský, B. 1723: Application de l'intégrale stochastique à la mesure de la rugosité de surface.
- Pareigis, Bodo. 5085: Über normale, zentrale, separable Algebren und Amisur-Kohomologie.
- Parhomovskii, S. I. 3611: The force on a piecewise smooth profile in a symmetric stream.
- Pariset, Jean. 2885: Chocs dans les fluides parfaits chargés de conductibilité infinie.
- Parker, E. N. 4935: Dynamical properties of stellar coronas and stellar winds. I. Integration of the momentum equation. 4936: Dynamical properties of stellar coronas and stellar winds. II. Integration of the heat-flow equation.
- Parkyn, D. G. 3974: Forced oscillations in a cylindrical atmosphere. 5600: Spin integrals in dynamics.
- Parodi, Maurice. 100: Le problème de Landau-Montel pour les combinaisons linéaires, à coefficients constants, de polynômes récurrents. 261: Sur la localisation des zéros complexes des dérivées des polynômes combinaisons linéaires, à coefficients constants, de polynômes de Gegenbauer.
- Farr, J. T. 3077: Cohomology of cyclic groups of prime square order.
- Parry, William. 4579: Intrinsic Markov chains.
- Parthasarathi, K. R. = Parthasarathy, K. R.
- Parthasarathy, K. R. 4566: (with Sazonov, V. V.) On the representation of infinitely divisible distributions on a locally compact Abelian group.
- Parzen, Emanuel. 3882: A new approach to the synthesis of optimal smoothing and prediction systems. 4655: Spectral analysis of asymptotically stationary time series. 5511: On statistical spectral analysis.
- Pascual, P. 4613: (with Galindo, A.) Some remarks on the relativistic wave equations. 1912: (with Nambu, Y.) Self-consistent models of strong interaction with chiral symmetry.
- di Pasquale, Salvatore. 1816: Risoluzione del problema dell'equilibrio flessionale per volte di traslazione nei casi di inapplicabilità della soluzione di Wlassow. 1817: Equazioni di Pücher in coordinate curvilinee ortogonali.
- Pasquel, José Tola. See Tola Pasquel, José.
- Pastushenko, V. V. 2733: (with Čerkosov, L. V.) Waves in a viscous fluid from a periodically moving pressure system.
- Pasyukov, B. 576: On a generalization of topological products. 1590: On snake-like bicomplexa. 4517: Universal spaces for certain classes of spaces.
- Pásztor, C. 3085: (with Dénes, J.) Sur un problème de substitution de P. Vermes.
- Pataraja, A. D. = Pataraja, A. D.
- Pataraja, A. D. 813: Propagation of a solitary wave in a plasma along a magnetic field.
- Pataşinskii, A. Z. = Patašinskii, A. Z.
- Patašinskii, A. Z. 3744: (with Pokrovskii, V. L. and Khalatnikov, I. M.) Regge poles in quasiclassical potential well problems. 4837: (with Pokrovskii, V. L. and Khalatnikov, I. M.) Quasiclassical scattering in a centrally symmetric field.
- de Pater, A. D. 4196: The vibrations of nonlinear mechanical systems with rigid stops.
- Pati, Tribikram. 417: On an unsolved problem in the theory of absolute summability factors of Fourier series. 3273: A note on the second theorem of consistency for absolute summability. 3274: The second theorem of consistency for Riesz boundedness. 3275: Effectiveness of absolute summability. 4277: (with Ramanujan, M. S.) On iteration products preserving absolute convergence.
- Patil, V. H. 5523: The Behrens-Fisher problem and its Bayesian solution.
- Patt, Charles. 4103: Variations of Teichmüller and Torelli surfaces.
- Pattle, R. E. 3652: (with Monaghan, J.) The calculation of time-lag in thermal and electrical conduction, and in diffusion.
- Patty, C. W. 2548: Isotopy invariants of trees.
- Pauc, Christian. 5472: (with Krickeberg, Klaus) Martingales et dérivation.
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- Paulauskas, C. C. 1042: The investigation of a gradient system of automatic optimization with random interference at the input and output of the object.
- Paulauskas, Ts. Ts. = Paulauskas, C. C.
- Paulson, Edward. 4633: A sequential procedure for selecting the population with the largest mean from k normal populations.
- Pavageau, James. 3636: Pouvoirs de réflexion et de transmission d'un réseau diélectrique à profil sinusoïdal et de pas inférieur à la longueur d'onde. 3637: Pouvoirs de réflexion et de transmission d'un dioptré imparfaitement poli.
- Pavlov, B. S. 1341: On the spectral theory of non-selfadjoint differential operators.
- Pavlov, V. P. 892: (with Zav'yalov, O. I.) Spectral representations for the five-point function in perturbation theory.
- Pavlov, V. V. 4207: Sufficient conditions for invariance of non-linear systems.
- Pavlovskii, Ju. N. 5053: Numerical calculation of a plane laminar boundary layer for a blunt plate in a compressible gas.
- Pawelski, W. 4222: (with Palczewski, B.) Some remarks on the uniqueness of solutions of the Darboux problem with conditions of the Krausosielski-Krein type.
- Payne, L. E. 2353: (with Bramble, J. H.) Pointwise bounds in the first biharmonic boundary value problem. 2675: (with Bramble, J. H.) On the uniqueness problem in the second boundary-value problem in elasticity. 5602: (with Bramble, J. H.) Effect of error in measurement of elastic constants on the solutions of problems in classical elasticity. 1537: (with Weinberger, H. F.) On Korn's inequality.
- Payton, Robert G. 3608: (with Martin, Charles J.) Thermoelastic stresses in a slab.
- Paz, A. 5473: Graph-theoretic and algebraic characterizations of some Markov processes.
- Pazderski, G. 135: Zu einem Satz von Huppert betreffend überauflösbare Gruppen.
- Pearce, R. P. 731: (with Mitchell, A. R.) Explicit difference methods for solving the cylindrical heat conduction equation.
- Pearcy, Carl. 4380: On certain von Neumann algebras which are generated by partial isometries. 4381: Entire functions on infinite von Neumann algebras of type I. 4379: (with Deckard, Don) On algebraic closure in function algebras.
- Pearson, C. J. 4799: (with Kaus, P.) Jost functions and determinantal method in potential scattering.
- Pearson, E. S. 3496: Some problems arising in approximating to probability distributions, using moments.
- Pearson, Erna H. 2996: On the congruences $(p-1)! \equiv -1$ and $2^{p-1} \equiv 1 \pmod{p^2}$.
- Pedersen, Niels Wendell. 479: The resolutions of the identity for sums and products of commuting spectral operators.
- Peercy, C. L. 125: (with Harrison, D. K.; Irwin, J. M. and Walker, E. A.) High extensions of Abelian groups.

- Peetre, Jaak. 328: Mixed problems for higher order elliptic equations in two variables. II.
- Peierls, Ronald F. 346: (with Foldy, Leslie L.) Isotopic spin of exchanged systems.
- Peizulaev, S. I. 398: An approximation by elementary functions.
- Pelczyński, A. 4369: On weakly compact polynomial operators on B -spaces with Dunford-Pettis property. 4370: A theorem of Dunford-Pettis type for polynomial operators. 4504: (with Engelking, R.) Remarks on dyadic spaces.
- Pellat, René. 5601: (with Laval, Guy) Instabilités des systèmes stationnaires dues à un couplage entre deux modes normaux.
- Pellicciaro, E. J. 4182: (with Baxter, W. E.) Cyclicly related differential equations. 3248: (with Bureau, F. J.) Asymptotic behavior of the spectral matrix of the operator of elasticity.
- Penrose, Oliver. 926: Convergence of fugacity expansions for fluids and lattice gases. 3792: The remainder in Mayer's fugacity series.
- Penry, M. D. 2200: Composition theorems on Dirichlet series.
- Penzlin, F. 3705: Die Methode der Feynmanschen Graphen.
- Percus, J. K. 925: (with Lebowitz, J. L.) Asymptotic behavior of the radial distribution function. 4878: (with Lebowitz, J. L.) Integral equations and inequalities in the theory of fluids.
- Perel', V. I. 3658: (with Konstantinov, O. V.) Coherence of states in the scattering of modulated light.
- Perel'man, I. I. = Perel'man, I. I.
- Perel'man, I. I. 1046: Control optimization on the basis of maximum likelihood criterion. 2008: A comparison of the simplest gradient and extrapolation systems of extremal control for the case of an object with real static characteristics.
- Perel'man, M. E. 4819: (with Matinjan, S. G.) The generalized Ward identity for electromagnetic transitions between different particles.
- Perelomov, A. M. 5744: Possible determination of additional characteristics of an unstable particle.
- Peres, Asher. 543: Three-component spinors. 1877: Interaction of quantized and unquantized systems. 3690: Spurious nature of ultraviolet divergences. 1876: (with Grossmann, Zvi) Classical theory of the Dirac electron. 1961: (with Leibovitz, Clement) Energy balance of uniformly accelerated charge.
- Peressini, A. L. 454: Concerning the order structure of Köthe sequence spaces.
- Peretti, Giuseppe. 5793: Sulla velocità di fuga di un grave.
- Pergamenščikov, M. B. 542: H' congruences. 4461: Inclusion of H -pairs in a Möbius configuration.
- Pergament, Stuart. 4745: (with O'Brien, Edward E.) Note on the unphysical spectral predictions of the joint normal distribution hypothesis.
- Peřina, J. 2775: Les relations de dispersion dans la théorie des images optiques.
- Pernet, Roger. 510: La droite projective quaternionienne et les transformations de Study-Pimä.
- Perov, A. I. 4192: On multi-dimensional differential equations with constant coefficients. 4193: (with Krasnosel'skiĭ, M. A.) Some criteria for existence of periodic solutions of systems of ordinary differential equations. 476: (with Molamed, V. B.) A generalization of a theorem of M. A. Krasnosel'skiĭ on the complete continuity of the Fréchet derivative of a completely continuous operator.
- Perret, C. J. 5844: (with Levey, H. C.) The theory of uncatalysed linear expanding systems.
- Perrin, Henri. 5796: Sur l'interprétation des relations de choc en magnétohydrodynamique relativiste.
- Perry, R. L. 3366: A result on the equivalence of linear sets by finite decomposition.
- Persidskaja, L. 4267: Construction of a bounded solution of a certain functional equation.
- Persson, Arne. 3312: A generalization of two-norm spaces.
- Pervin, William J. 4514: Equinormal proximity spaces. 4515: (with Mrówka, S. G.) On uniform connectedness. 3399: (with Sieber, J. L.) Separation axioms for syntopogenous spaces.
- Perzyna, Piotr. 2704: On the propagation of stress waves in a rate sensitive plastic medium.
- Peshkin, Murray. 3755: Spin and parity analysis at all production angles.
- Péter, Rézsa. 23: Programmierung und partiell-rekursive Funktionen.
- Peters, Jean. 2257: ★Eight-place tables of trigonometric functions for every second of arc.
- Petersen, G. M. 3125: (with Davies, G. S.) On an inequality of Hardy's. II. 4270: (with Thompson, Anne C.) On a theorem of Pólya.
- Petersen, I. 5572: Convergence of gradient methods for finding a local conditional minimum of a non-linear functional under linear conditions in a Hilbert space.
- Peterson, E. L. 5573: (with Kashmar, C. M.) General imbedding theory.
- Peterson, F. P. 4349: (with Brown, E. H., Jr.) Whitehead products and cohomology operations. 5442: (with Brown, Edgar H., Jr.) Algebraic bordism groups. 612: (with Mahowald, Mark E.) Secondary cohomology operations on the Thom class.
- Peterson, Robert L. 3863: (with Quay, Paul M.) Generalized master equations for the density matrix.
- Petit, Roger. 3642: Diffraction d'une onde plane monochromatique par un réseau métallique.
- Petráň, Milan. 2806: Tensor interpretation of Wick's rule. 4838: A note on the de Alfaro, Regge and Rossetti dynamical equation for Jost functions.
- Petrenko, V. P. 4120: The growth of meromorphic functions along a ray.
- Petresco, Julian. 5106: Algorithmes de décision et de construction dans les groupes libres.
- Petri, Carl Adam. 2629: ★Kommunikation mit Automaten.
- Petric, Mario. 2930: On the number of orthogonal signals which can be placed in a WT -product.
- Petrina, D. Ja. 2531: Analytic properties of contributions from Feynman diagrams.
- Petrina, D. Ya. = Petrina, D. Ja.
- Petrosjan, L. G. 1844: On a solution of a boundary-layer equation.
- Petrov, A. Z. 1905: Centrally-symmetric gravitational fields. 5792: ★Einstein-Räume.
- Petrov, P. I. 1359: Second-order differential invariants of 2-dimensional spaces with symmetric affine connection and their applications.
- Petrov, V. V. 1645: Probabilities of large deviations of sums of independent, equi-distributed random variables. 1646: Limit theorems for large deviations violating Cramér's condition. I. 2509: One-sided inequalities of Chebyshev type. 2570: On large deviations of sums of random variables.
- Petrova, L. T. 2659: Some applications of a schematic symbolism. 1795: (with Platonova, I. A.) Machine realization of computations with list classes as inputs.
- Petrovakaja, M. S. 5814: Estimates of the remainder terms in Hill's series.
- Petrow, A. S. = Petrov, A. Z.
- Petty, C. M. 4191: (with Leitmann, G.) A boundedness theorem for a nonlinear, nonautonomous system.
- Petunin, Ju. I. 2425: Conjugate Banach spaces containing subspaces of characteristic zero. 4334: (with Krein, S. G.) On the concept of minimal scale of spaces.
- Peube, Jean-Laurent. 817: Sur la diffusion convective dans un tube cylindrique de section elliptique.
- Pevzner, S. L. 3362: Quadrics in an n -dimensional hyperbolic space.
- Peyret, Roger. 4748: Sur la structure du choc lent dans un schéma à deux fluides avec dissipation.
- Peyser, Gideon. 352: Energy inequalities for hyperbolic equations in several variables with multiple characteristics and constant coefficients.
- Pfanzagl, Johann. 3498: (with Borges, Rudolf) A characterization of the one parameter exponential family of distributions by monotonicity of likelihood ratios.
- Pfluger, Albert. 4371: Verallgemeinerte Poisson-Stieltjes'sche Integraldarstellung und kontraktive Operatoren.
- Phakadze, Š. Š. 4072a: Measure decomposition. 4072b: Decomposition of measures of different types.
- Phen, Kim Ze. See Kim Ze Phen.
- Philip, Johan. 5518: Reconstruction from measurements of positive quantities by the maximum-likelihood method.
- Philipp, Walter. 3950: (with Nöbauer, Wilfried) Die Einfachheit der mehrdimensionalen Funktionenalgebren.

- Phillips, Carl. 4615: On a class of distribution functions as applied to different stochastic processes. 4616: An extension of the models usually applied to the theory of risk.
- Pie, Gheorghe. 3082: Kriterien für das Zerfallen von Gruppen über Subnormalteilern.
- Piccard, Sophie. 3941: Quelques propriétés des systèmes déterminants d'ensembles et de leurs noyaux. 3942: Quelques propriétés des systèmes déterminants d'ensembles et de leurs noyaux. Les systèmes déterminants réguliers.
- Piccielli, R. A. 1925: (with Green, M. S.) Basis of the functional assumption in the theory of the Boltzmann equation.
- Pichen, Guy. 2898: Le champ électromagnétique singulier en présence d'inductions.
- Pickard, William F. 4150: Tables of the generalized Stirling numbers of the first kind.
- Pieman, L. 919: Linear response, density oscillation and two-particle Green's function of fermion systems. I.
- Picone, Mauro. 2416: Un metodo di risoluzione numerica dei sistemi di equazioni integrali lineari di seconda specie di Volterra.
- Pierce, R. S. 3095: Centers of purity in abelian groups.
- Pierce, William A. 500: Collineations of affine Moulton planes.
- Pietach, Albrecht. 452: ★Verallgemeinerte vollkommene Folgenräume. 1478: Absolut summierende Abbildungen in lokalkonvexen Räumen.
- Pigeaud, Pierre. 5805: (with Mariot, Louis) Commutateurs en théorie n -dimensionnelle.
- Pignani, T. J. 264: (with Koehler, D. L.) On the solution of a certain non-linear differential equation of the second order.
- Pill, E. I. = Pill, E. I.
- Pill, E. I. 2023: (with Lazarev, V. G.) The simplification of pulse-potential forms. 5892: (with Lazarev, V. G.) Some classes of finite automata.
- Pike, E. R. 3214: On the related-equation method of asymptotic approximation (W.K.B. or A.A. method). I. A proposed new existence theorem.
- Pimenov, R. I. 5362: On the foundations of geometry.
- Pini, Bruno. 3245: Sulla classe di Gevrey delle soluzioni di certe equazioni ipoclitiche.
- Pinkham, R. S. 1675: (with Hogben, D. and Wilk, M. B.) The moments of a variate related to the non-central t . 1676: (with Hogben, D. and Wilk, M. B.) An approximation to the distribution of Q (a variate related to the non-central t).
- Pinsker, M. S. 5545: (with Dobrušin, R. L. and Širjaev, A. N.) An application of the concept of entropy to signal-detection problems with background noise.
- Pipkin, A. C. 1857: Alternating flow of non-Newtonian fluids in tubes of arbitrary cross-section. 1858: Precursor waves in shock tubes. 5606: (with Rivlin, Ronald S.) Normal stresses in flow through tubes of non-circular cross-section. 3600: (with Rogers, Tryfan G.) Asymmetric relaxation and compliance matrices in linear viscoelasticity.
- Pisarenko, G. S. 3559: Application of the methods of asymptotic expansions in powers of a small parameter for investigating oscillations of mechanical systems with dissipation of energy in the material.
- Piskerek, A. 355: Étude de la continuité régulière d'une intégrale concernant la dérivée transversale relative au système parabolique. 356: Propriété limite de la dérivée transversale du potentiel de simple couche relatif au système parabolique. 1400: Propriété limite de la dérivée transversale du potentiel de simple couche relatif au système parabolique. 1401: Problème aux limites linéaire pour le système parabolique d'équations aux dérivées partielles.
- Pill, M. 1802: (with Novotný, J.) Degenerate motion.
- Pisot, Charles. 1083: Démonstration élémentaire du théorème des nombres premiers. 4264: (with Dufresnoy, J.) Sur la relation fonctionnelle $f(x+1) - f(x) = \varphi(x)$. 2071: (with Chabauty, C.; Châtelet, A.; Châtelet, F.; Descombes, R. and Poitou, G.) Introduction à la théorie des nombres.
- Pitcher, Tom S. 5461: On adding independent stochastic processes. 4563: (with Kinney, J. R.) The dimension of the support of a random distribution function.
- Pittel, B. G. 5881: Some optimal control problems. I.
- Plus, F. 3570: (with Ghez, R.) A generalised surface stress. 3571: (with Ghez, Richard) Sur l'énergie superficielle et l'état de contrainte en surface.
- Pjatečnik-Šapiro, I. I. 3115: (with Gel'fand, I. M.) Automorphic functions and the theory of representations. 1068: (with Gel'fand, I. M. and Cetlin, M. L.) On certain classes of games and robot games. 1638: (with Vinberg, E. B. and Gindikin, S. G.) Classification and canonical realization of complex homogeneous bounded domains.
- Pjatkii, E. S. 2943: On the structural stability of single-loop control systems of normal type. 4968: On the structural independence of single-loop control systems.
- Plackett, R. L. 2604: ★Principles of regression analysis.
- Platonov, V. P. 1260: Algebraic d -groups. 2152: Periodic subgroups of algebraic groups.
- Platonova, I. A. 1795: (with Petrova, L. T.) Machine realization of computations with list classes as inputs.
- Pleijel, Åke. 1426: A bilateral Tauberian theorem. 1427: Remark to my previous paper on a bilateral Tauberian theorem.
- Plessis, N. Du. See Du Plessis, N.
- Plus, V. A. 4203: Stability of motion in the doubtful case of two zero roots.
- Plotkin, B. I. 141: On infinite-dimensional linear groups. 1235: Generalized stable and generalized nilpotent groups of automorphisms.
- Plotnikov, V. I. 2340: (with Sigalov, A. G. and Ural'ceva, N. N.) Quasilinear elliptic equations and variational problems.
- Plotnikova, G. V. 285: On the construction of periodic solutions of a nonautonomous quasilinear system with two degrees of freedom.
- Pluhar, Z. 4872: (with Ůlehl, I.) Perturbation theory for system of many-fermions starting from degenerate state.
- Pócsik, G. 3732: Fermion self-masses and Lehmann's spectral representation.
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- Podlipenskiĭ, V. S. 1057: A procedure for simulation of circuits on magnetic logical elements.
- Pod'japol'skii, G. S. = Pod'japol'skii, G. S.
- Pogorelov, A. V. 1562: (with Aleksandrov, A. D.) Theory of surfaces and partial differential equations.
- Pogorzelski, H. A. 3024: Primitive words in an infinite abstract alphabet.
- Pogorzelski, Ryszard. 5559: On the stability of some difference methods. 5560: On numerical integration of differential equations whose solutions have discontinuous higher derivatives.
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- Pohil, G. P. 3671: (with Berezin, F. A. and Finkel'berg, V. M.) The Schrödinger equation for a system of one-dimensional particles with point interaction.
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- Poitou, G. 2071: (with Chabauty, C.; Châtelet, A.; Châtelet, F.; Descombes, R. and Pisot, Ch.) Introduction à la théorie des nombres.
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- Polák, Václav. 528: On one L. Fejes Tóth's problem of stable packing. 1520: On the mapping of simple polygonal lines in the plane.
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- Polkinghorne, J. C. 882: Singularities of Regge trajectories and asymptotes to Landau curves. 883: High-energy behavior in perturbation theory. II. 3228: Production processes and moving Regge cuts. 4840: The complete high-energy behavior of ladder diagrams in perturbation theory. 3736: (with Halliday, I. G.) High-energy behavior in production processes.
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- Pólya, Georg. 1108: ★Mathematik und plausible Schliessen. Bd. 2: Typen und Strukturen plausibler Folgerung.
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- Popov, G. Ia. = Popov, G. Ja.
- Popov, G. Ja. 3576: Some properties of classical polynomials and their application to contact problems.
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- Popovici, Andrei. 4910: Séparation conforme des états de spin de la particule de spin maximal 2. 3847: (with Demayo, A.) Les tenseurs de courbure de VI-e ordre dans V_n . I. Identités algébriques. 1565: (with Hristev, Anatole and Popovici, Julien) Théorie conforme dans C_0 des particules de spin maximal 1 et 1/2.
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- Popruženko, J. 2059: Sur une propriété des ensembles partiellement ordonnés.
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- Price, Robert. 2049: The stroke function in natural deduction.
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- Privorockii, I. A. = Privorockii, I. A.
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- Proizvoley, V. V. 2521: Cardinal numbers of the basis of an H -closed space.
- Prokhorov, L. V. = Prohorov, L. V.
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- Proskurjakov, A. P. 3226: Stability of periodic solutions of quasilinear autonomous systems with one degree of freedom.
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- da Providência, J. 1919: Linked graph expansion for the logarithm of

- the norm of many-body wave functions. 2846: Intrinsic symmetries or nuclear rotational states.
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- Pukánszky, Lajos = Pukánszky, Lajos.
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- Puri, Pratap. 3575: (with Singh, Avtar) Stresses in a cylinder rotating with variable angular velocity.
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- Püst, L. = Püst, L.
- Püst, L. 4700: Transition through the resonance zone in oscillatory mechanical systems, considering the influence of the vibrator.
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- Pyke, Ronald. 1643: (with Hobby, Charles) A combinatorial theorem related to comparisons of empirical distribution functions. 3467: (with Hobby, Charles) Remarks on the equivalence principle in fluctuation theory.
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- Pyškin, I. V. 2007: On a method of representing the structure of a linear sequential machine.
- Quandt, Richard E. 4950: (with Kuhn, Harold W.) An experimental study of the simplex method.
- Quante, Peter. 1724: ★Lehrbuch der praktischen Statistik. Bevölkerungs-, Wirtschafts-, Sozialstatistik.
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- Rachajsky, Borivoje = Račajski, Borivoje.
- Rachwal, T. 1552: Sur les ombilics de l'hypersurface V_{n-1} plongée dans l'espace riemannien V_n .
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- Radhakrishna, L. 1962: (with Roy, S. R.) Self-conjugate gravitational fields. I.
- Radó, F. 5134: (with Hosszú, M.) Über eine Klasse von ternären Quasigruppen.
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- Raghavarao, Damaraju. 684: On balanced unequal block designs. 4642: Singular weighing designs. 5537: Construction of second order rotatable designs through incomplete block designs. 1717: (with Chandrasekhararao, K.) Cubic designs.
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- Reizin', L. E. = Reizipš, L. E.
- Reizipš, L. E. 2317: A homeomorphism of a system of differential equations in neighbourhoods of closed trajectories. 4219: A homeomorphism of systems of differential equations in neighbourhoods of closed trajectories.
- Rektorys, Karel. 1799: (Editor-in-Chief) ★A survey of applied mathematics.
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- Ribarič, M. 961: On the asymptotic and average behavior of the unsteady reflection properties of a compound body in an infinite time interval. 5777: The relation between the reflection properties of the body and the reflection properties of its parts. II.
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- Rieger, G. J. 1184: Über die Anzahl der Darstellungen einer natürlichen Zahl als Summe einer quadratfreien Zahl und eines Primzahlquadrates. 1185: Verallgemeinerung eines Satzes von Romanov und anderen. 3023: Über die Folge der Zahlen der Gestalt $p_1 + p_2$. 3024: Verallgemeinerung der Siebmethode von A. Selberg auf algebraische Zahlkörper. III.
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- Rosenfeld, B. A. = Rozenfel'd, B. A.
- Rosenfeld, R. L. 1823: (with Miklowitz, Julius) Wave fronts in elastic rods and plates.
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- Rowe, E. G. P. 1885: Exact equivalence of three scalar theories of three scalar particles.
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- Roy, S. R. 1962: (with Radhakrishna, L.) Self-conjugate gravitational fields. I.
- Royden, H. L. 4104: Riemann surfaces with the AB -maximum principle.
- Rozanov, Ju. A. 2580: ★Stationary stochastic processes.
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- Rubinstein, H. R. 5733: (with Diu, B.) Incompatibility of the exact and approximate bootstrap conditions in a soluble model.
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- Ruyer, Dominique. 1089: Extensions résolubles des corps de nombres algébriques (d'après K. Iwasawa).
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- Rybachov, M. V. = Rybašov, M. V.
- Rybašov, M. V. 1991: The determination of the frequency of periodic measurement necessary in the measurement of continuous signals. 1984: (with Karpinskaya, I. N.) A method for solving the linear-programming problem with an electronic model.
- Ryehlik, Karel. 2958: ★Theorie der reellen Zahlen in Bolzano's handschriftlichem Nachlasse.
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- Samarshii, A. A. 5565: Homogeneous difference schemes on non-uniform grids for equations of parabolic type. 1781: (with Androev, V. B.) A difference scheme of higher accuracy for an equation of elliptic type in several space variables.
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- Sancho de San Román, J. 506: On the existence of ovals with equichordal points.
- Sandakova, N. N. 1531: Proof of analogues of theorems of Minkowski and Voronoi for three-dimensional isogonal partitions associated with the group of translations.
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- Sandler, Reuben. 5373: On subplanes of free planes.
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- Săndulescu, Șerban. 806: (with Năstase-Ghia, Adriana) Le problème mixte de l'aile triangulaire en mouvement conique d'ordre supérieur.
- Sangren, W. C. 1344: (with Roos, B. W.) Asymptotic solutions and an equiconvergence theorem for a pair of first-order differential equations. 1748: (with Preisendorfer, R. W. and Roos, B. W.) Determinants by means of solutions of linear equations.
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- Sapunkov, Ja. G. 4747: Hypersonic flow past a circular cone at an angle of attack.
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- Saul'ev, V. K. 1752: On calculation of eigenvectors of matrices by the method of double iterations.
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- Săvulescu, Şt. N. 1939: Les équations de transport des grandeurs mécaniques appartenant aux systèmes statistiques nonconservatifs locaux dans un fluide.
- Sawaki, Sumio. 1572: On harmonic tensors in a compact almost-Kählerian space.
- Sawaragi, Yoshikazu. 5948: (with Sunahara, Yoshifumi and Hara, Kei) An analysis on non-stationary response of non-linear control systems by the method of Taylor-Cauchy transform. 5847: (with Sunahara, Yoshifumi and Nakamizo, Takayoshi) On the response of non-linear time-variant control systems subjected to a pre-assigned signal in the presence of gaussian random noise.
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- Schlitt, D. W. 4822: A soluble two-dimensional field theory satisfying unitarity and crossing symmetry.
- Schlup, Werner A. 1924: Eine störungstheoretische Methode zur Lösung der Dyson-Schmidt-Gleichung. 3826: Die Regularisierung der interpolierten Clusterentwicklung für die Eigenfrequenzverteilung einer ungeordneten binären Kette.
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- Schroeder, R. 4696: Input data source limitations for real-time operation of digital computers.
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- Schulz, William D. 1850: Tensor artificial viscosity for numerical hydrodynamics.
- Schurer, F. 411: Some remarks on the approximation of functions by some positive linear operators.
- Schützenberger, M. P. 1230: (with Sherman, S.) On a formal product over the conjugate classes in a free group.
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- Schwartz, Laurent. 1082: Sur un deuxième mémoire de Petrowsky: "Über das Cauchysche Problem für Systeme von partiellen Differentialgleichungen". 1082: Sur un mémoire de Petrowsky: "Über das Cauchysche Problem für ein System linearer partieller Differentialgleichungen im Gebiete der nichtanalytischen Funktionen". 1083: Sur un mémoire de K. Kodaira: "Harmonic fields in riemannian manifolds (generalized potential theory)". I, II. 1084: Les théorèmes de Whitney sur les fonctions différentiables. 1085: Les travaux de L. Gårding sur les équations aux dérivées partielles elliptiques. 1087: Solution élémentaire d'une équation aux dérivées partielles à coefficients constants (d'après B. Malgrange). 4355: Convergence de distributions dont les dérivées convergent.
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- Schwartz, Marie-Hélène. 1083: Compte-rendu de travaux de M. Heins sur diverses majorations de la croissance des fonctions analytiques de sous-harmoniques.
- Schwartz, Melvin. 1890: Inequivalent Hamiltonian formalisms in electrodynamics.
- Schwarz, Binyamin. 1208: Rearrangements of square matrices with non-negative elements.
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- Schwepe, Fred C. 2018: (with Kushner, Harold J.) A maximum principle for stochastic control systems.
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- Scott, Elizabeth L. 4937: (with Neyman, Jerzy) Field galaxies: luminosity, redshift, and abundance of types. I. Theory. 4938: (with Neyman, Jerzy) Magnitude-redshift relation of galaxies in clusters in the presence of instability and absorption.
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- Searis, Donald T. 688: On the probability of winning with different tournament procedures.
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- Sedunov, Yu. S. = Sedunov, Ju. S.
- Seeley, R. T. 2464: The index of elliptic systems of singular integral operators.
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- Sen, Bibhutibhusan. 1811: Direct method of solving some two-dimensional problems of elasticity. 5633: Note on the transient response of a linear visco-elastic plate in the form of an equilateral triangle.
- Sen, D. K. 1944: The Hamilton-Jacobi equation for a charged particle in a combined gravitational and electromagnetic field.
- Sen, Pranab Kumar. 4624a: On the properties of U -statistics when the observations are not independent. I. Estimation of non-serial parameters in some stationary stochastic process. 4624b: (with Nandi, H. K.) On the properties of U -statistics when the observations are not independent. II. Unbiased estimation of the parameters of a finite population.
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- Shabat, B. V. = Šabat, B. V.
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- Sibuya, Yasutaka. 2312: Asymptotic solutions of initial value problems of ordinary differential equations with a small parameter in the derivative. I. 2313: Asymptotic solutions of initial value problems of ordinary differential equations with a small parameter in the derivative. II. 377: (with Harris, W. A., Jr.) Note on linear difference equations. 2366: (with Harris, W. A., Jr.) Asymptotic solutions of systems of nonlinear difference equations.
- Siddiqui, M. M. 678a: Optimum estimators of the parameters of negative exponential distributions from one or two order statistics.
- Sideriadès, Léon. 4779: (with Boeri, Fernand) Résonance non linéaire, du type Duffing, d'un ensemble de deux circuits électriques couplés.
- Šidov, L. I. 3086: On the number of non-special subgroups of finite groups.

- Sieben, J. W. 4600: Applied statistics training in the Netherlands.
- Sieber, J. L. 3399: (with Pervin, W. J.) Separation axioms for syntopogenous spaces.
- Siegel, Carl Ludwig. 3006: ★Lectures on the analytical theory of quadratic forms.
- Siegert, Arnold J. F. 4867: (with Aizu, Ko and Dell'Antonio, Gianfausto) Field operators for bosons with impenetrable cores. II. Equations of motion and general operator formalism.
- Siekmann, Julius. 2263: Note on a Riegels-type integral. 2723: Analysis of ring aerofoils of elliptic cross section. I. General theory.
- Siemens, David F., Jr. 2050: An extension of "Fitch's rules".
- Sierpiński, W. 3958: Sur une propriété des nombres naturels.
- Signalov, A. G. 2340: (with Plotnikov, V. I. and Ural'ceva, N. N.) Quasi-linear elliptic equations and variational problems.
- Signell, Peter. 2815: (with Durso, John W.) Regge poles and potentials with cores.
- Šik, František. 146: Über Fortsetzung additiver und isotoner Funktionale auf geordneten Gruppen.
- Sikorski, Roman. 2063: A few problems on Boolean algebras. 3225: (with Mikusinski, J.) ★Théorie élémentaire des distributions. 2064: (with Traczyk, T.) On free products of m -distributive Boolean algebras.
- Silberstein, J. P. O. 5337: Symmetrisable operators. II. Operators in a Hilbert space 5. 5338: Symmetrisable operators. III. Hilbert space operators symmetrisable by bounded operators.
- Silin, V. P. 5771: Contribution to the theory of oscillations of a weakly inhomogeneous plasma.
- Šilov, G. E. 482: Analytic functions in a normed ring. 483: Letter to the editor. 1223: (with Gel'fand, I. M.) Categories of finite-dimensional spaces. 4354: (with Gelfand, I. M.) ★Les distributions. Tome 2: Espaces fondamentaux. 2349: (with Visk, M. I.) The general theory of partial differential equations and certain problems in the theory of boundary-value problems.
- Silva, C. N. De. See De Silva, C. N.
- e Silva, Joao Andrade. See Andrade e Silva, Joao.
- e Silva, José Sebastião. See Sebastião e Silva, José.
- Silven, Saul. 4757: Application of operational methods to the analysis of uniform plasmas.
- Šimanov, S. N. 3231: On the theory of linear differential equations with periodic coefficients and time lag. 2321: (with Myška, A. D. and El'agol'e, L. E.) Stability and oscillations of systems with lag.
- Simauti, Takakazu. 5552: Approximation formulas for some elementary functions.
- Simoda, Seturo. 1372: Traité sur la théorie des équations elliptiques et semi-linéaires. III.
- Simonov, Ju. A. 4842: Integral representation of a square diagram with anomalous mass ratio.
- Simonov, Yu. A. = Simonov, Ju. A.
- Sinal, Ja. G. 3474: Higher-order spectral measures of ergodic stationary processes. 5164a: †A weak isomorphism of transformations with invariant measure. 5164b: †On a weak isomorphism of transformations with invariant measure.
- Sinden, Frank W. 1987: Duality in convex programming and in projective space.
- Singer, I. M. 626: (with Atiyah, M. F.) The index of elliptic operators on compact manifolds.
- Singer, Ivan. 5321: Bases and quasi-reflexivity of Banach spaces.
- Singh, Avtar. 3575: (with Puri, Pratap) Stresses in a cylinder rotating with variable angular velocity.
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- Singh, K. D. 1581: (with Lane, N. D.) Conical differentiation. 5389: (with Lane, N. D. and Scherk, P.) Monotony of the osculating circles of arcs of cyclic order three.
- Singh, M. P. 5689: (with Ludford, G. S. S.) The hydromagnetics of an ellipsoid moving in a cross-field.
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- Singh, N. K. 5534: (with Shukla, G. C.) The non-existence of some partially balanced incomplete block designs with three associate classes.
- Singh, R. P. 262: (with Srivastava, K. N.) On Jacobi and associated Legendre functions with non-integer indices.
- Singh, S. K. 467: On projections in a Hilbert space.
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- Singh, S. P. 2412: Relations between Hankel transform and the generalised Laplace transforms (Whittaker & Meijer transforms).
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- Singh, V. 4831: (with Gell-Mann, M.; Goldberger, M. L.; Low, F. E. and Zachariasen, F.) Elementary particles of conventional field theory as Regge poles. IV.
- Singetari, Wilson E. 2040: A complex of problems proposed by Post.
- Sinkhorn, Richard. 5072: A relationship between arbitrary positive matrices and doubly stochastic matrices.
- Sion, Maurice. 1316: On capacitability and measurability. 1268: (with Mallory, Donald J.) On covering systems. 2181: (with Rogers, C. A.) On Hausdorff measures in topological spaces.
- Sips, V. 2577: Longitudinal oscillations in plasma.
- Siraždinov, S. H. 3020: (with Azharov, T. A.) On a uniform local theorem.
- Širinbekov, M. 3173: (with Vladimirov, V. S.) On the construction of envelopes of holomorphy for Hartogs domains.
- Širjaev, A. N. 649: On finding disorder in a manufacturing process. II. 3475: Ergodicity conditions for stationary processes in terms of higher-order moments. 5545: (with Dobrushin, R. L. and Pinsker, M. S.) An application of the concept of entropy to signal-detection problems with background noise.
- Širokov, D. V. 4841: Invariant charge and Regge asymptotic behavior.
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- Širokov, F. V. 5409: On a paper of I. D. Čerkasov "On transforming the diffusion process to a Wiener process".
- Širokov, Ju. M. 855: Microcovariance and microcausality in quantum theory. 2835: On microcovariance and microcausality. 1999: (with Cheshkov, A. A.) Invariant parametrization of the relativistic scattering matrix. 3713: (with Cheshkov, A. A.) Invariant parametrization of local operators.
- Širokov, P. A. 4419: ★A sketch of the fundamentals of Lobachevskian geometry.
- Širov, I. I. 2288: The problem of center and focus in the theory of non-linear oscillations.
- Sirovich, Lawrence. 930: Formal and asymptotic solutions in kinetic theory. 1930: Generalized normal solutions of the Boltzmann equation.
- Skaček, B. Ja. 5209: Asymptotic behaviour of the negative part of the spectrum of one-dimensional differential operators.
- Škil', M. I. 295: An asymptotic solution of a system of linear differential equations containing a parameter. 5232: (with Fečenko, S. F.) An error bound for the asymptotic representation of the solutions of a system of linear differential equations containing a parameter.
- Škil', N. I. = Škil', M. I.
- Skinner, L. A. 5658: (with Bankoff, S. G.) Dynamics of vapor bubbles in spherically symmetric temperature fields of general variation.
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- Skljarevič, A. N. 1020: Algebraic method of determining the optimum transfer function. 1995: The optimal transfer function in the case when the mathematical expectation of disturbance is periodic. 1996: Reduction of a nonstationary operator to a product of stationary operators with appropriate kernels.
- Skljarskii, D. O. 1111: (with Chentsov, N. N. and Yaglom, I. M.) ★The USSR Olympiad problem book. Selected problems and theorems of elementary mathematics.
- Sklyarevich, A. N. = Skljarevič, A. N.
- Skobeev, A. M. 2705: On the theory of unloading waves.
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- Skorohod, A. V. 1655: On homogeneous continuous Markov processes which are martingales.
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- Skowronski, J. M. 3331: (with Zemba, S.) The domain of boundedness of motion of strongly non-linear non-autonomous mechanical systems with partially negative damping.
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- Šlepjan, L. I. = Šlepjan, L. I.
- Šlepjan, L. I. 3604: On the displacements of a deformable body in an acoustic medium.
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- Šmal'gauzen, V. I. 2028: Design of an optimal tracking system.
- Smart, John Roderick. 215: A basis theorem for cusp forms on groups of genus zero.
- Smell, S. = Smale, S.
- Šmel'kin, A. L. 1236: On the isomorphism of nilpotent decompositions of torsion-free nilpotent groups.
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- Smirnov, Ju. = Smirnov, Ju. M.
- Smirnov, Ju. I. 2540: Calculation of the mathematical expectation of a quasi-additive path function on a graph.
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- Smirnov, S. V. 4601: Sufficiency of the generalized Gronwall conditions for the nomographability of functions of several variables.
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- Smith, V. H., Jr. 4879: (with Gersch, H. A.) Cluster expansions and the theory of many-boson systems.
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- Smorodinskii, Ya. A. = Smorodinskii, Ja. A.
- Snapper, Ernst. 1226: Cohomology of permutation representations. I. Spectral sequences.
- Śniatycki, J. 4808: (with Białynicki-Birula, I. and Tatur, S.) Functional methods in the Thirring model.
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- Sobel'man, I. I. = Sobel'man, I. I.
- Sobel'man, I. I. 4767: (with Tyutin, I. V.) Induced radiative processes in quantum and classical theories.
- Sobociński, Bolesław. 2044: A note concerning the many-valued propositional calculi.
- Sobolevskii, P. E. 2360: Parabolic equations in a Banach space with an unbounded variable operator, a fractional power of which has a constant domain of definition. 4258: Application of the method of fractional powers of operators to the study of the Navier-Stokes equations.
- Sobolevskii, V. M. 2696: Certain cases of the integration of an ordinary differential equation describing the stressed state of an anisotropic, non-homogeneous and non-uniformly heated spherical shell.
- Socher, Antonín. 4993: (with Hájek, Petr) Ein dem Fundierung axiom äquivalentes Axiom.
- Soda, Toshio. 917: Excitation spectrum of an impurity in the hard-sphere Bose gas.
- von Soden, Wolfram. 2957: (with Gundlach, Karl-Bernhard) Einige altbabylonische Texte zur Lösung "quadratischer Gleichungen".
- Sofronov, E. T. 2306: Stability of unperturbed motion for a system of three equations in a critical case.
- Sokolik, G. A. 978: Contribution to the theory of compensating fields.
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- Solodovnikov, A. S. 5400: Geometric description of all possible representations of a Riemannian metric in Levi-Civita form.
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- Solomeič, I. A. 2329: Eigenvalues of some degenerate elliptic equations.
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- Solomon, Liviu. 5610: Une solution approchée du problème du poinçon rigide à base plane bornée convexe non elliptique.
- Solonnikov, V. A. 2352: A priori estimates for certain boundary-value problems. 5267: A priori estimates for solutions of second-order equations of parabolic type.
- Solov'ev, L. S. = Solov'ev, L. S.
- Solov'ev, L. S. 2876: Axial-symmetrical oscillations of a plasma cylinder.
- Som, M. M. 3840: Cylindrically symmetric radial electrostatic fields in general relativity.
- Somerion, W. H. 1872: (with Selim, M. A. and Fatt, I.) Temperature rise in a semi-infinite medium heated by a disc source.
- Sommerfeld, Arnold. 927: ★Vorlesungen über theoretische Physik. Bd. V: Thermodynamik und Statistik.
- Sommerfeld, Charles M. 3094: On the definition of currents and the action principle in field theories of one spatial dimension.
- Sone, Yoshio. 3811: Kinetic theory analysis of the linearized Rayleigh problem.
- Senin, V. V. 2630: (with Isaev, V. K.) On a modification of Newton's method for the numerical solution of boundary-value problems.

- Senneborn, L. M. 4539: Level sets of spheres.
- Sonnenschein, J. 1667: Existence et unicité de la solution analytique d'un problème de file d'attente. 2289: Sur les solutions périodiques de certains systèmes d'équations différentielles non linéaires.
- Sonner, Johann. 123: Universal and special problems.
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- Soom, Erich. 4599: (with Bertschinger, André and Linder, Arthur) Formation aux applications industrielles de la statistique en Suisse.
- Soós, Gyula. 4496: On the theory of fiber spaces of Finler type.
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- Sorani, G. 246: Omologia degli spazi q -pseudoconvessi.
- Sörmus, T. 4278: Some Mercer-type theorems for restrained convergence. 5277: Mercer-type theorems for restrained and ordinary convergence.
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- Sosulin, Ju. G. 3854: (with Stratonovič, R. L.) On the calculation of the detection characteristics of fluctuating signals.
- Sou, Hao. 724: Homogeneous difference methods for a fourth-order equation with discontinuous coefficients.
- Souriau, J.-M. 5896: Five-dimensional relativity.
- Southard, T. H. 1754: (with Cheney, E. W.) A survey of methods for rational approximation, with particular reference to a new method based on a formula of Darboux.
- Spallek, Karlheinz. 4142: Verallgemeinerung eines Satzes von Osgood-Hartogs auf komplexe Räume. 5196: Einige Untersuchungen über analytische Modulgarben.
- Spanier, E. 1622: Higher order operations.
- Specker, Ernst. 1129: Typical ambiguity.
- Spence, E. 3966: Formulae for sums involving a reduced set of residues modulo n .
- Spencer, Domina Eberle. 3647: (with Moon, Parry) A new mathematical representation of alternating currents.
- Sperber, D. 839: Interaction energy in a configuration of three equivalent particles. 840: Interaction energy in a configuration of several groups of many equivalent particles.
- Spiegel, Edward A. 3869: (with Moore, Derek W.) The generation and propagation of waves in a compressible atmosphere.
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- Spitzer, F. 5478: (with Kesten, H.) Ratio theorems for random walks. I.
- Spitzer, Richard. 5692: The breakdown of reflection symmetry and the principle of restricted coherence.
- Sprindžuk, V. G. 1165: On some general problems of approximating numbers by algebraic numbers. 2088: On theorems of Khinchin and Kubilius. 2089: On algebraic approximations in the field of power series. 2090a: On Mahler's conjecture. 2090b: More on Mahler's conjecture.
- Springer, C. E. 3389: ★Tensor and vector analysis. With applications to differential geometry.
- Springer, George. 5178a: Fredholm eigenvalues and quasiconformal mapping. 5178b: Fredholm eigenvalues and quasiconformal mapping.
- Springer, T. A. 178: (with Monna, A. F.) Intégration non-archimédienne. I. 179: (with Monna, A. F.) Intégration non-archimédienne. II.
- Spruch, Larry. 841: (with Hahn, Yukap and O'Malley, Thomas F.) Improved minimum principle for single-channel scattering. 5699: (with Hahn, Yukap and O'Malley, Thomas F.) Bounds on multi-channel scattering parameters. 5700: (with Hahn, Yukap and O'Malley, Thomas F.) Improved minimum principle for multichannel scattering.
- Squires, Euan J. 2813: ★Complex angular momenta and particle physics. 3746: On the nature of the singularity of a partial-wave scattering amplitude at the negative integral value of J . 3747: (with Charap, John M.) On complex angular momentum in many-channel potential-scattering problems. III. 4500: (with Calogero, Francesco and Charap, John M.) The continuation in total angular momentum of partial-wave scattering amplitudes for particles with spin.
- Šragin, I. V. 463: On the continuity of the Nemyckii operator in Orlicz spaces.
- Średniawa, Bronisław. 3660: (with Weyssenhoff, Jan) On the approximate applicability of the Schrödinger equation to non-isolated systems.
- Srinivassacharyulu, K. 2504: Deformations of riemannian structures. 3454: ★Sur les structures différentiables et les variations de structures complexes.
- Srinivasan, Bhama. 4638: A note on blocks of modular representations.
- Srinivasan, T. P. 2459: (with Wang, Ju-Kwei) On the maximality theorem of Werner.
- Srivastava, R. P. 220: (with Ghosh, R. K.) On entire functions represented by Dirichlet series.
- Srivastava, J. N. 2616: (with Bose, R. C.) On a bound useful in the theory of factorial designs and error correcting codes.
- Srivastava, K. N. 1334: On some integrals involving Jacobi's polynomials. 3306: Dual integral equations with Bessel function and trigonometrical kernels. 362: (with Singh, R. P.) On Jacobi and associated Legendre functions with non-integer indices.
- Srivastava, O. P. 4617: (with Harkness, W. L. and Bartoo, J. B.) Asymptotic distribution of distances between order statistics from bivariate populations.
- Srivastava, P. N. 4735: Propagation of small disturbances in a semi-infinite visco-elastic liquid due to the slow angular motion of a disc. 3649: (with Kapur, J. N.) On the unsteady flow of viscous incompressible fluid in an annulus under toroidal pressure gradient.
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- Srivastava, T. N. 3394: A few remarks on special Kawaguchi spaces.
- Stabler, R. C. 2996: A possible modification of classical electrodynamics.
- Stachowiak, H. 1929: On statistics of particles which cannot exchange their places.
- Stackelberg, Olaf P. 4558: On the law of the iterated logarithm. I, II.
- Stadnikova, N. A. 3538: On the character of the convergence in the Ritz method.
- Stahovskii, R. I. 5880: An algorithm for solving boundary-value problems.
- Stallings, John. 1600: On fibering certain 3-manifolds. 2139: A finitely presented group whose 3-dimensional integral homology is not finitely generated.
- Stallybrass, M. P. 2701: A variational approach to a class of mixed boundary-value problems in the forced oscillations of an elastic medium.
- Stamate, I. 381: Functional equations of Pexider type. I.
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- Stancu, D. D. 718: (with Stroud, A. H.) Quadrature formulae with simple Gaussian nodes and multiple fixed nodes.
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- Stanilov, G. 4458: Kanonisches Bezugssystem der Regelscharen der zweiaxigen Geometrie.
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- Stardinskii, V. M. 759: Oscillating chains.
- Stasheff, James Dillon. 1623: Homotopy associativity of H -spaces. I, II.
- Statulevičius, V. 1631: On the asymptotic expansion of the characteristic function of a sum of independent random variables.

- Statulavičius, V. = Statulevičius, V.
- Statz, Hermann. 2381: (with Koster, George F.; Dimmock, John O. and Wheeler, Robert G.) ★ Properties of the thirty-two point groups.
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- Steenrod, N. E. 3422: The cohomology algebra of a space.
- Steigenberger, J. 2905: Trennung der Veränderlichen in einer Klasse Hamilton-Jacobischer Differentialgleichungen. Anwendung auf das Einkörperproblem der speziellen Relativitätstheorie.
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- Stein, F. Max. 4173: Sturm-Liouville systems that generate families.
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- Stephens, M. A. 1693: The testing of unit vectors for randomness. 2591: Exact and approximate tests for directions. I. 2592: Exact and approximate tests for directions. II.
- Stephenson, John. 1928: (with Fisher, Michael E.) Statistical mechanics of dimers on a plane lattice. II. Dimer correlations and monomers.
- Stern, A. I. 5141: Completely irreducible representations of the real unimodular group of second order.
- Stern, Melvin E. 2740: Joint instability of hydromagnetic fields which are separately stable.
- Sternberg, Eli. 1827: (with Al-Khozaie, S.) On Green's functions and Saint-Venant's principle in the linear theory of viscoelasticity. 779: (with Gurtin, M. E.) A reciprocal theorem in the linear theory of anisotropic viscoelastic solids. 2671: (with Gurtin, M. E.) On the completeness of certain stress functions in the linear theory of elasticity. 2713: (with Gurtin, M. E.) Uniqueness in the theory of thermo-rheologically simple ablating viscoelastic solids.
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- Stevens, Harlan. 2999: Some congruence properties of the Hermite polynomials.
- Stewart, A. L. 5742: On the $Z^{-1/3}$ expansion of unrestricted Hartree-Fock wave functions.
- Stewart, K. L. 1777: (with Miles, G. A. and Tee, G. J.) Elementary divisors of the Liebmann process.
- Stewartson, K. 2763: Magneto-fluid dynamics of bodies in aligned fields. 4758: On the Kutta-Joukowski condition in magneto-fluid dynamics. 4757: (with Roberts, P. H.) On the motion of a liquid in a spheroidal cavity of a precessing rigid body.
- Stiel, Edsel. 1554: (with O'Neill, Barrett) Isometric immersions of constant curvature manifolds.
- Stinchcombe, R. B. 928: (with Horwitz, G.; Englert, F. and Brout, R.) Thermodynamic behavior of the Heisenberg ferromagnet.
- Stockmal, Frank. 4663: Calculations with pseudo-random numbers.
- Stogryn, A. P. 2779: (with Ghose, R. N.) Generation of an electromagnetic pulse by an expanding plasma in a conducting half-space.
- Stoka, Marius I. 1542: Sur les groupes de mouvement d'une correspondance entre les plans projectifs. 4475: Sur les correspondances entre des espaces projectifs à connexion projective linéaire.
- Stoker, J. J. 2682: Elastic deformations of thin cylindrical sheets.
- Stoljarev, S. N. 1865: Reflection and refraction of electromagnetic waves at a moving boundary.
- Stoljarskaja, N. E. 5215: On the construction of solutions of non-linear systems subject to exterior periodic forces depending explicitly on time.
- Stolyarov, S. N. = Stoljarev, S. N.
- Stone, A. H. 33: On ϵ -discreteness and Borel isomorphism.
- Stone, Charles. 1662: The set of zeros of a semistable process. 1663: Limit theorems for random walks, birth and death processes, and diffusion processes. 4562: (with Kochen, Simon) A note on the Borel-Cantelli lemma.
- Stoneham, R. G. 3959: The reciprocals of integral powers of primes and normal numbers.
- Stong, Robert E. 2542: Relations among Stiefel-Whitney classes.
- Störmer, Horand. 5526: Ein Test zum Erkennen von Normalverteilungen.
- Stout, E. L. 4105: Some theorems on bounded holomorphic functions.
- Strahov, V. N. 995: The reduction of the problem of analytic continuation in a horizontal layer to that of the solution of convolution-type integral equations of the first kind with rapidly decreasing kernels.
- Strakhov, V. N. = Strahov, V. N.
- Stranahan, G. 2854: (with Gartenhaus, S.) Spin effects on the plasma oscillations of an electron gas in a magnetic field.
- Strang, Gilbert. 3548: Wiener-Hopf difference equations.
- Stratonovič, R. L. 1052: On the theory of optimal control. An asymptotic method for solving the diffusive alternative equation. 1660: ★ Topics in the theory of random noise. Vol. I: General theory of random processes. Nonlinear transformations of signals and noise. 3476: A new form of representing stochastic integrals and equations. 3884: (with Sosulin, Ju. G.) On the calculation of the detection characteristics of fluctuating signals.
- Stratonovich, R. L. = Stratonovič, R. L.
- Stratton, Howard H., Jr. 3486: (with Tucker, Howard G.) Limit distributions of a branching stochastic process.
- Strauer, H.-D. 736: (with Meinardus, G.) Über Tschebyscheffsche Approximationen der Lösungen linearer Differential- und Integralgleichungen.
- Štraus, A. V. 3346: On the multiplicity of the spectrum of a self-adjoint ordinary differential operator.
- Straus, E. G. 520: (with Motzkin, T. S.) Representation of points of a set as linear combinations of boundary points. 3161: (with Sato, Daihachiro) Rate of growth of Hurwitz entire functions and integer valued entire functions.
- Strauss, M. 1866: Verallgemeinerung des Planckschen Strahlunggesetzes in k - c - I -Theorien.
- Streeter, R. F. 4807: (with Wightman, A. S.) ★ PCT, spin and statistics, and all that.
- Street, Robert L. 2729: A linearized theory for rotational supercavitating flow.
- Strelifer, W. 821: (with Kodis, R. D.) On the solution of a transcendental equation arising in the theory of scattering by a dielectric cylinder.
- Strocchi, F. 4793: The relativistic limit of the theory of vector mesons.
- Strommer, J. 5369: Konstruktionen allein mit dem Zirkel in der hyperbolischen Ebene.
- Stroud, A. H. 2638: Coefficients in quadrature formulas. 4677: (with Secrest, Don) Approximate integration formulas for certain spherically symmetric regions. 718: (with Stanou, D. D.) Quadrature formulas with simple Gaussian nodes and multiple fixed nodes.
- Strubecker, Karl. 770: Airysche Spannungsfunktion und isotrope Differentialgeometrie.

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- Struble, R. A. 1806: (with Harris, T. C.) Motion of a relativistic damped oscillator.
- Strzelecki, E. 3294: On a problem of interpolation by periodic and almost periodic functions. 5351: Algebras under a minimal norm.
- Stumpff, Karl. 1973: ★Himmelsmechanik. Bd. I: Das Zweikörperproblem und die Methoden der Bahnbestimmung der Planeten und Kometen.
- Stuth, Charles J. 2121: A generalization of the Cartan-Brauer-Hua theorem.
- Suárez, Juan José Gutiérrez. See Gutiérrez Suárez, Juan José.
- Subbarao, M. V. 2073: A generating function for a class of arithmetic functions.
- Sucher, J. 3677: (with Brehm, J. J.) Dispersion theory methods for pion-deuteron elastic scattering. I. 5703: (with Fong, R.) Relativistic particle dynamics and the S matrix.
- Sucheston, L. 4085: Remarks on Kolmogorov automorphisms.
- Sudakov, V. N. 4627b: (with Linnik, Ju. V. and Romanovskii, I. V.) A non-randomized homogeneous test in the Behrens-Fisher problem.
- Sudarshan, E. C. G. 1909: (with Currie, D. G. and Jordan, T. F.) Erratum: "Relativistic invariance and Hamiltonian theories of interacting particles". 3665: (with Jordan, T. F. and Macfarlane, A. J.) Hamiltonian model of Lorentz invariant particle interactions. 1908: (with Macfarlane, A. J. and Dullemond, C.) Weyl reflections in the unitary symmetry theory of strong interactions. 3767: (with Macfarlane, A. J. and Mukunda, N.) Electromagnetic and decay properties of G_2 multiplets. 4857: (with Macfarlane, A. J. and Mukunda, N.) Generalized Shmushkovich method: Proof of basic results.
- Sudler, Culbreth, Jr. 74: Two algebraic identities and the unboundedness of a restricted partition function.
- Sugawara, Hirotaka. 880: Non-shrinking diffraction scattering and the Nambu-Sugawara-Miyazawa hypothesis.
- Sugawara, Masao. 1894: (with Nambu, Yoichiro) High-energy behavior of total cross sections. 2830: (with Nambu, Yoichiro) Double phase representation of analytic functions.
- Sugibayashi, Masutaro. 4697: (with Shimizu, Tatsujiro and Morimoto, Hiroshi) Experiments in solving arithmetic problems given by sentences by electronic computers.
- Sugiura, Nariaki. 677: On a generalization of the Wilcoxon test for censored data.
- Sugurov, V. K. = Sugurovas, V.
- Sugurovas, V. 5752: (with Bolotin, A. B.) Transformation of many-center integrals to one center.
- Suhanov, A. D. 3689: On the charged vector theory of Lee and Yang.
- Sukhanov, A. D. = Suhanov, A. D.
- Sul'din, A. V. 722: Wiener measure and its applications to approximation methods. I.
- Suleimanov, N. M. 3268: On the solutions of the Cauchy problem for countable systems of partial differential equations in the class of generalized functions.
- Šul'ko, L. F. 3589: Investigation of the dynamic stability of a cylindrical shell subject to high-frequency axial periodic forces.
- Šul'gifer, E. G. 2988: The lattice of ideals of an object of a category. II.
- Sulhanšvili, G. I. 1786: On the numerical solution of the generalized non-homogeneous polyharmonic equation.
- Šul'kina, T. K. 85: (with Billevič, K. K.) Letter to the editors.
- Šul'kovskii, V. I. 4473: Differential-topological characterization of the family of nets with equal Chebyshev vectors and a common apolar net.
- Šum, A. I. 323: Conditions for applicability of the method of separation of variables to the equation $\Delta_{\mathbb{R}^n} v + \lambda v = 0$.
- Summerfield, G. C. 4905: On the Fermi approximation in thermal neutron scattering.
- Sumner, D. B. 4311: A distribution function of Cantor-Vitali type.
- Sun, Hè-Hèn. 561: On rigidity of surfaces of non-negative curvature with coupling connections.
- Sunahara, Yoshifumi. 5848: (with Sawaragi, Yoshikazu and Hara, Kei) An analysis on non-stationary response of non-linear control systems by the method of Taylor-Cauchy transform. 5847: (with Sawaragi, Yoshikazu and Nakamizo, Takayoshi) On the response of non-linear time-variant control systems subjected to a pre-assigned signal in the presence of gaussian random noise.
- Sundaresan, M. K. 2870: (with Wu, Ta-You) Notes on the Vlasov equation for plasmas.
- Sunouchi, Gen-ichirō. 423: Correction and remark to "Cesàro summability of Fourier series". 2407: Discrete analogue of a theorem of Littlewood-Paley.
- Sunyer Balaguer, F. 3145: Generalization of the method of Wiman and Valiron to a class of Dirichlet series.
- Supino, Giulio. 750: Una generalizzazione della teoria dei modelli fisici.
- Šur, M. G. 5507: Kurtosis functions and additive functionals of Markov processes.
- Šura-Bura, M. R. 2661: (with Eršov, A. P.) Machine languages and automatic programming.
- Surányi, János. 5022: (with Erdős, Pál) ★Selected chapters from number theory.
- Suranyi, P. 2827: (with Domokos, G.) Three-particle states in the relativistic theory of complex angular momentum.
- Surovihin, K. P. 5638: A group-theoretic classification of equations describing one-dimensional non-stationary gas flows.
- Survila, P. 3471: The remainder term in the asymptotic expansion of the density. 5458: On a local limit theorem for density functions.
- Suryanarayan, E. R. 2722: On the geometry of the steady, complex-lamellar gas flows.
- Suvorov, G. D. 210: Distortion of distance by univalent Q -quasi-conformal mappings of plane regions.
- Suzuki, Michio. 2157: On the existence of a Hall normal subgroup.
- Suzuki, Noboru. 484: Isometries on Hilbert spaces.
- Suzuki, Yoshindo. 2042: A complete classification of the Δ_2^1 -functions.
- Švare, A. S. 3309: On the homotopic topology of Banach spaces.
- Švec, Alois. 4459: Sur la géométrie différentielle des réseaux conjugués dans E_n .
- Švec, Marko. 4210: (with Ličko, Imrich) Le caractère oscillatoire des solutions de l'équation $y^{(n)} + f(x)y'' = 0$, $n > 1$.
- Svejgaard, Bjarner. 1729: (with Busk, Thøger) Polynomial equations.
- Svoboda, A. 5581: The numerical system of residual classes in mathematical machines.
- Swaminarayan, N. S. 4911: (with Bonnor, W. B.) An exact solution for uniformly accelerated particles in general relativity.
- Swamy, J. Chidambara. See Chidambara Swamy, J.
- Swamy, N. V. V. J. 4862: (with Biedenharn, L. C.) Remarks on the relativistic Kepler problem. II. Approximate Dirac-Coulomb Hamiltonian possessing two vector invariants.
- de Swart, J. J. 5745: The crossing matrix in the octet model.
- Sweeney, Dora W. 3522: On the computation of Euler's constant.
- Sweet, P. A. 2915: Cooperative phenomena in stellar dynamics.
- Swenson, Robert J. 3835: A note on the formal theory of transport coefficients. 3834: (with McLennan, James A., Jr.) Theory of transport coefficients in low-density gases.
- Świerczkowski, S. 1151: On two numerical constants associated with finite algebras. 1251: Integrals on quotient spaces. 2169: Jacobians for measures in coset spaces. 5140: Topologies in free algebras. 4992: (with Mycielski, Jan) On the Lebesgue measurability and the axiom of determinateness.
- Swift, J. D. 4426: Chains and graphs of Ostrom planes.
- Swindle, George F. 5582: (with Fisher, F. Peter) ★Computer programming systems.
- Swingle, P. M. 4523: (with Dickman, R. F. and Rubin, L. R.) Characterization of n -spheres by an excluded middle membrane principle.
- Syrmus, T. = Šörmus, T.
- Sysoev, L. P. 1997: Detection of a random signal received along several channels with independent noises.
- Szaniecki, Jan. 2879: Some remarks on the spin wave theory for cubic ferromagnetics. I.
- Szarski, J. 269: Remarque sur un critère d'unicité des intégrales d'une équation différentielle ordinaire.
- Szász, F. 1211: Über Ringe mit Minimalbedingung für Hauptrechtsideale. III.
- Szász, Levente. 2852: Formulation of the quantum-mechanical many-body problem in terms of one- and two-particle functions.

- Szegő, Georges.** 1935: Sur la stabilité absolue d'un système non linéaire discret.
- Szego, P.** 1940: †(with Lorch, L.) Higher monotonicity properties of certain Sturm-Liouville functions. II. 1332: (with Lorch, Leo) Monotonicity of the differences of zeros of Bessel functions as a function of order.
- Szekerés, P.** 1952: Spaces conformal to a class of spaces in general relativity.
- Szenthe, János.** 1980: Homogeneous spaces with intrinsic metric.
- Szépessy, P.** 1922: On the superfluid state of strongly-interacting fermions.
- Szilágyi, Paul.** 334: (with Kalik, Charles) Une condition nécessaire et suffisante pour la validité de l'alternative de Fredholm dans le cas de problèmes de Dirichlet et de systèmes elliptiques.
- Szilárd, K.** 230a: Über die Analoga der ganzen rationalen Funktionen in verallgemeinerten Klassen von Funktionen einer komplexen Veränderlichen. I. 230b: Über die Analoga der ganzen rationalen Funktionen in verallgemeinerten Klassen von Funktionen einer komplexen Veränderlichen. II.
- Smilew, Wanda.** 1517: New foundations of absolute geometry.
- Sz.-Nagy, Béla.** 2448: Isometric flows in Hilbert space.
- Sasada, Zenon.** 5357: (with Dąbrowski, Mirosław) On the use of Runge-Kutta and Adams' methods in computer practice.
- Szybiak, A.** 4467: Covariant derivative of geometric objects of the first class. 4468: Covariant derivative of the geometric objects.
- Tabata, Fujio.** 1551: The degeneration of the deformation which appears in the infinitesimal transformation of a Riemannian manifold V_n .
- Tabata, Morio.** 5402: Conformal transformations of Riemannian spaces.
- Taberski, R.** 389: Asymptotic formulae for Cesàro singular integrals. 390: The convergence of singular integrals at Lebesgue-Orlicz points of some functions. 2384: Remarks on singular integrals. 3284: Approximation to conjugate function. 3285: On the summability of Fourier and Bessel series of Hölder functions.
- Tabueva, V. A.** 2937: (with Barbashin, E. A.) A method of stabilizing third-order control systems with large gains. II. 3217: (with Barbashin, E. A.) Theorem on the stability of the solution of a third order differential equation with a discontinuous characteristic.
- Tachibana, Shun-ichi.** 570: Some theorems on locally product Riemannian spaces. 1871: Analytic tensor and its generalization. 871: (with Tashiro, Yoshihiro) On Fubini and C-Fubini manifolds.
- Tachikawa, Hiroyuki.** 5092: On dominant dimensions of QF-3 algebras.
- Tagiev, I. G.** 5620: (with Ahund-Zade, M. Ju.) A new approximation method of solving the equilibrium equations for arbitrary shallow shells.
- Tal, C. T.** 4768: On the electrodynamics in the presence of moving matter.
- Tableson, Mitchell H.** 5332: The preservation of Lipschitz spaces under singular integral operators.
- Talpin, M. A.** 1129: Undecidability of elementary theories of certain classes of finite commutative associative rings. 1131: The effective non-separability of the set of identically true formulae and the set of finitely refutable formulae in the elementary theory of lattices.
- Talmanov, A. D.** 4522: Open pre-images of spheres.
- Tainiter, M.** 4589: (with Eisen, M.) Stochastic variations in queuing processes.
- Tait, W. W.** 2964a: (with Gandy, R. O. and Kreisel, G.) Set existence. 2964b: (with Gandy, R. O. and Kreisel, G.) Set existence. II.
- Takács, Lajos.** 3490: The distribution of majority times in a ballot. 3491: The distribution of the virtual waiting time for a single-server queue with Poisson input and general service times. 5494: Priority queues. 5495: Combinatorial methods in the theory of dams.
- Takahashi, Hiroshi.** 3578: (with Ichino, Ichiro) Theory of nonsymmetrical bending state for spherical shell.
- Takahashi, Shigeru.** 384: The law of the iterated logarithm for a gap sequence with infinite gaps. 4292: Central limit theorem of trigonometric series.
- Takahashi, Yasushi.** 4823: (with Umezawa, Hiroomi) Relativistic quantization of fields.
- Takahasi, H.** 5856: (with Goto, E.) Application of error-correcting codes to multi-way switching.
- Takamatsu, Kichiro.** 5407: On a decomposition of an almost-analytic vector in a K -space with constant scalar curvature.
- Takase, Reibun.** 2557: Note on orientable surfaces in 4-space.
- Takasu, Tsurusaburo.** 1549: Duality in the linear connections in the large. 4481: The relativity theory in the Einstein space under the extended Lorentz transformation group.
- Takeno, Shōzō.** 2880: A Green's function method for the frequency spectrum of an isotopically disordered lattice. 2882: Time-dependent properties of an isotopically disordered lattice.
- Takeuchi, K.** 1712: A table of difference sets generating balanced incomplete block designs. 1713: On the construction of a series of BIB designs. 1714: A remark added to "On the optimality of certain type of BIB designs".
- Takeuti, Gaisi.** 1133: A generalization of König's lemma.
- Takizawa, Seizi.** 566: On contact structures of real and complex manifolds.
- Tal', A. A.** 1058: (with Aizerman, M. A.; Gusev, L. A.; Rozonoër, L. I. and Smirnova, I. M.) Clock conversion in sequential machines and the synthesis of relay networks.
- Talancov, A. D.** 3903: The logic of filters.
- Talintyre, T. D.** 3060: Quotient rings of rings with maximum condition for right ideals.
- Talman, James D.** 3783: Excitation spectrum of a many-boson system.
- Tamano, Hisahiro.** 5419: Note on paracompactness.
- Tamari, Dov.** 1085: Machines logiques et problèmes de mots. I. Les machines de Turing (T.M.). 1085: Machines logiques et problèmes de mots. II. Problèmes de mots indécidables.
- Tamasehke, Olaf.** 138: Verbandstheoretische Methoden in der Theorie der subnormalen Untergruppen.
- Tamarkin, V. V.** 811: (with Biragov, S. B.) Radiation reaction of sound due to the motion of small bodies in inhomogeneous gaseous media.
- Tamor, Stephen.** 826: Perturbation theory of classical systems with time dependent forces.
- Tamura, Itiro.** 3453: Classification des variétés différentiables, $(n-1)$ -connexes, sans torsion, de dimension $2n+1$.
- Tamura, Jirō.** 2208: Counting functions of analytic mappings between Riemann surfaces.
- Tamura, Ryōji.** 2612: On the efficiency of Sukhatme's test.
- Tamura, T.** 3108: Operations on binary relations and their applications. 5133: (with Burnell, D. G.) Extension of groupoids with operators.
- Tan, Mia-Hung.** 5151: On convergence and continuity of functions.
- Tanaka, Chuji.** 1308: Boundary convergence of Blaschke products in the unit-circle.
- Tanaka, Hiromi.** 3686: (with Nishida, Yoshihiko and Shimauchi, Masaaki) An approximation method for high-energy potential scattering.
- Tandai, Kwoichi.** 4499: On general connections in an areal space. II. General connections on the tangent m -frame bundle.
- Tandori, K.** 4291: Beispiel der Fourierreihe einer quadratisch-integrierbaren Funktion, die in gewisser Anordnung ihrer Glieder überall divergiert.
- Tang, C. L.** 2782: Errata: "On the radiation pattern of a base-driven antenna over a circular conducting screen."
- Tang, S. C.** 254: A definite integral. 652: Some theorems on the ratio of empirical distribution to the theoretical distribution.
- Tangerlini, Frank R.** 1867: Self-stress, covariance and the classical electron.
- Tani, S.** 872: Regge poles in high-energy potential scattering. 3676: (with Rosendorff, S.) New series for phase shift in potential scattering.
- Tanis, Elliot A.** 1704: Linear forms in the order statistics from an exponential distribution.
- Tanno, Shōkichi.** 4483: Some transformations on manifolds with almost contact and contact metric structures. II.
- Tao, Junzo.** 623: On the smoothing of a combinatorial n -manifold immersed in the euclidean $(n+1)$ -space.
- Tao, L. N.** 3599: The associated elastic problems in dynamic viscoelasticity.
- Taran, V. A.** 2940: (with Emel'yanov, S. V.) On the use of inertial

- sections in designing a certain class of automatic control systems with variable structure. 2941: (with Emel'yanov, S. V.) On the use of inertial sections in designing a certain class of automatic control systems with variable structure. II.
- Tarjanne, Pekka. 904: (with Cutkosky, R. E.) Self-consistent deviations from unitary symmetry.
- Tashiro, Yoshihiro. 574: On conformal and projective transformations in Kählerian manifolds. 571: (with Tachibana, Shun-ichi) On Fubini and C -Fubini manifolds.
- Tasi, J. 2720: (with Herrmann, G.) Thermoelastic dissipation in high-frequency vibrations of crystal plates.
- Tassie, L. J. 4769: Gauge invariance and localizability in electromagnetic theory.
- Tate, John. 4032: Nilpotent quotient groups.
- Taton, René. 7: (with Mesnard, Jean) Édition critique de la lettre de Leibniz à Périer du 30 août 1676.
- Tatur, S. 4896: (with Bialynicki-Birula, I. and Śniatycki, J.) Functional methods in the Thirring model.
- Taub, A. H. 4923: Motion of test bodies in general relativity.
- Tauber, Gerald E. 992: Tensor wave equation in an expanding universe.
- Tauber, S. 3946: On multinomial coefficients.
- Tausky, Olga. 105: Ideal matrices. II. 5069: Matrices G with $C^{\infty} \rightarrow 0$. 5079: (with Dade, E. C.; Robinson, D. W. and Ward, M.) Divisors of recurrent sequences.
- Tavernier, Jean. 958: Sur la théorie quantique de la méthode du gain moyen d'énergie.
- Tavhelidze, A. N. 866: (with Logunov, A. A.) Quasi-optical approach in quantum field theory. 1895: (with Logunov, A. A.; Todorov, I. T. and Khrustalov, O. A.) Quasi-potential character of the scattering amplitude.
- Tavkhelidze, A. N. = Tavhelidze, A. N.
- Taylor, Angus E. 1489: Spectral theory and Mittag-Leffler type expansions of the resolvent.
- Taylor, J. C. 871: (with Branson, D. and Landahoff, P. V.) Derivation of partial amplitudes and the validity of dispersion relations for production processes. 870: (with Islam, J. N. and Landahoff, P. V.) Singularity of the Regge amplitude.
- Taylor, J. G. 1896: High energy scattering from field theory.
- Taylor, J. R. 1903: (with Eden, R. J.) Resonance multiplets and broken symmetry. 4829: (with Eden, R. J.) Poles and shadow poles in the many-channel S matrix.
- Taylor, P. L. 3796: The Boltzmann equation for conduction electrons.
- Taylor, S. J. 4070: (with Rogers, C. A.) Additive set functions in Euclidean space. II.
- Taylor, T. D. 3619: (with Acrivos, Andreas) On the deformation and drag of a falling viscous drop at low Reynolds number.
- Taylor, Tekla. 3100: (with Neumann, B. H.) Subsemigroups of nilpotent groups.
- Tee, G. J. 1777: (with Miles, G. A. and Stewart, K. L.) Elementary divisors of the Liebnann process.
- Teghem, J. 4001: Enseignement de la statistique industrielle. Rapport pour la Belgique.
- Teljakovskii, S. A. 2409: Bounds for the derivatives of trigonometric polynomials of several variables.
- Tempel'man, A. A. 3508: (with Golosov, Ju. I.) The likelihood ratio for the hypothesis about the trend in certain Gaussian processes.
- Temperley, H. N. V. 4830: On the mutual cancellation of cluster integrals in Mayer's fugacity series.
- Temple, G. 5336: The theory of weak functions. I, II. 424: (with Zielezny, Z.) On Fourier transforms of rapidly increasing distributions.
- Teodorčik, K. F. = Teodorčik, K. F.
- Teodorčik, K. F. 2006: (with Bendrikov, G. A.) A simplified method for the analytic construction of root trajectories.
- Theodorescu, N. 1313: Fonctions holomorphes (α) et fonctions de classe C_2 . 4088: Opérateurs de projection en théorie des primitives aréolaires bornées. 4089: Fonctions monogènes (α) et fonctions analytiques généralisées.
- Theodorescu, R. = Theodorescu, R.
- Tepličkí, E. Š. 5702: On the meromorphy of the partial scattering amplitude in the complex angular momentum plane.
- Teplitz, V. L. 5730: (with Jones, C. E.) Singularities of partial-wave amplitudes arising from the third double-spectral function.
- Tepin, A. L. 723: Theorems on difference inequalities for n -point difference boundary problems.
- Ter-Krikorov, A. M. 3613: Théorie exacte des ondes longues stationnaires dans un liquide hétérogène. 3266: (with Trenogin, V. A.) Existence and asymptotic behaviour of solutions of "solitary wave" type for a class of non-linear elliptic equations.
- Ter-Martirosjan, K. A. 4843: The asymptotic values of the amplitudes of inelastic processes.
- Ter-Martirosyan, K. A. = Ter-Martirosjan, K. A.
- Terragno, Paul J. 3623: (with Guenther, William C.) A review of the literature on a class of coverage problems.
- Teters, G. A. 4713: The postcritical stage of shells under plastic deformations and combined load.
- Teverovskii, V. I. 4977: A method of analyzing periodic states of a relay system containing arbitrary switching relays.
- Tevzadze, N. R. 3136: Lebesgue points of a function of two variables.
- Thacher, Henry C., Jr. 1761: An efficient composite formula for multi-dimensional quadrature.
- Theil, H. 3518: (with Boot, J. C. G.) The final form of econometric equation systems.
- Theodorescu, R. 3472: (with Iosifescu, M.) Properties of chains with complete connections.
- Thibault, Roger. 3761: Étude d'écoulements bidimensionnels au voisinage de la vitesse de Alfvén. 5677: Sur les chocs stationnaires au voisinage de la vitesse de Alfvén.
- Thom, René. 1063: Les géodésiques dans les variétés à courbure négative (d'après E. Hopf). 1086: Sous-variétés et classes d'homologie des variétés différentiables. 1087: Sur les variétés-bords. 1089: Les singularités des applications différentiables. 1091: Travaux de Milnor sur le cobordisme.
- Thoma, Elmar. 3332: Über unitäre Darstellungen abzählbarer, diskreter Gruppen.
- Thomas, Emery. 3426: Homotopy classification of maps by cohomology homomorphisms.
- Thomas, Ivo. 2030: On the infinity of positive logic.
- Thomas, Johannes. 1352: Über gewisse lineare Differentialgleichungssysteme mit periodischen Koeffizienten. II. 4699: Zur Statistik eines gewissen Federsystems im E_n .
- Thomas, R. H. 1855: (with Walters, K.) The stability of elastico-viscous flow between rotating cylinders. I. 1856: (with Walters, K.) The stability of the flow of an elastico-viscous liquid in a curved channel. 5667: (with Walters, K.) The motion of an elastico-viscous liquid due to a sphere rotating about its diameter.
- Thomas, T. Y. 965: Hypersurfaces in Einstein-Riemann space and their compatibility conditions. 2900: Space-time coordinates in the general theory of relativity. 4750: The perfect relativistic gas. 1954: (with Edelen, D. G. B.) On a mechanical interpretation of the null geodesics in static Einstein-Riemann spaces. 1955: (with Edelen, D. G. B.) On the characterization of contemporaneous and Born rigid motions and the question of their equivalence. 1953: (with Edelen, Dominic G. B.) The dynamics of discontinuity surfaces in general relativity theory.
- Thomé, Vidar. 2650: A predictor-corrector type scheme for the mixed boundary problem for a hyperbolic first-order system in two dimensions. 1778: (with Keller, Herbert B.) Unconditionally stable difference methods for mixed problems for quasi-linear hyperbolic systems in two dimensions.
- Thompson, Anne C. 4270: (with Petersen, G. M.) On a theorem of Pólya.
- Thompson, Colin J. 1927: (with Blatt, John M.) A perturbation approach to Bose-condensed pairs. 3786: (with Matsubara, Takao) Zumino's theorem in the quasi-chemical equilibrium theory.
- Thompson, J. M. T. 765: Basic principles in the general theory of elastic stability.
- Thompson, John G. 3090: 2-signalizers of finite groups.
- Thompson, Maynard. 4125: Approximation by polynomials whose zeros lie on a curve.
- Thompson, Robert J. 5568: Difference approximations for inhomogeneous and quasi-linear equations.

- Thompson, W. A., Jr. 5530: Negative estimates of variance components: An introduction. 2925: (with Kelly, R. J.) Quadratic programming in real Hilbert spaces. 4625: (with Remage, Russell, Jr.) Rankings from paired comparisons.
- Thorp, B. L. D. 5348: Operators which commute with translations.
- Thorp, E. O. 4340: Internal points of convex sets.
- Thyssen, M. 1307: Sur certains opérateurs de transmutation particuliers.
- Tiao, G. C. 680: (with Box, G. E. P.) A further look at robustness via Bayes's theorem. 4647: (with Guttman, Irwin) A Bayesian approach to some best population problems. 5513: (with Guttman, Irwin) Some useful matrix lemmas in statistical estimation theory.
- Tidman, Derek A. 4894: (with Montgomery, David) Secular and non-secular behavior for the cold plasma equations.
- Tietz, T. 4865: (with Florczak, J.) Atomic energy levels and eigenfunctions for the atomic field.
- Tiffen, R. 2699: (with Lowe, P. G.) An exact theory of generally loaded elastic plates in terms of moments of the fundamental equations.
- Tihonov, A. N. 5576: On the solution of ill-posed problems and the method of regularization. 5577: On the regularization of ill-posed problems. 1773: †(with Gorbunov, A. D.) Asymptotic error bounds for the Runge-Kutta method. 1774: †(with Gorbunov, A. D.) Asymptotic expansion for the error of a difference method of solving the Cauchy problem for a system of ordinary differential equations. 299: (with Vasil'eva, A. B. and Velosov, V. M.) Differential equations containing a small parameter.
- Titt, E. 1474: On the sum set in normed linear spaces. 2379a: Rearrangement sets of a type of summable series. 2379b: Some new rearrangement sets of summable series.
- Tiktopoulos, George. 2829: High-energy behavior of Feynman amplitudes. II. Nonplanar graphs. 5718: Analytic continuation in complex angular momentum and integral equations.
- Tillmann, Heinz Günther. 1878: Zur Eindeutigkeit der Lösungen der quantenmechanischen Vertauschungsrelationen.
- Timan, A. F. 2388: A problem in approximation theory related to the superposition of functions.
- Timman, R. 5643: The wave pattern of a moving ship.
- Timofeev, A. V. 5772: Convection of weakly ionized plasma in a non-uniform external magnetic field.
- Timofeev, V. N. 63: On positive quadratic forms representing the same numbers.
- Ting, Thomas C. T. 3005: The plastic deformation of a cantilever beam with strain-rate sensitivity under impulsive loading.
- Tippe, Jürgen. 535: Zur isoperimetrischen Eigenschaft der Kugel in Riemannschen Räumen konstanter positiver Krümmung.
- Tiss, Laszlo. 929: (with Quay, Paul M.) The statistical thermodynamics of equilibrium.
- Titchmarsh, E. C. 11: Ughtred Shuttleworth Haslam-Jones.
- Tits, Jacques. 1088: Groupes semi-simples complexes et géométrie projective. 1088: Sous-algèbres des algèbres de Lie semi-simples (d'après V. Morozov, A. Malcev, E. Dynkin et F. Karpelevitch). 2134: A theorem on generic norms of strictly power associative algebras. 2170: Automorphismes à déplacement borné des groupes de Lie.
- Tjablikov, S. V. 2861: (with Bonch-Bruевич, V. L.) ★The Green function method in statistical mechanics.
- Tjøtta, Sigve. 815: On magneto-hydrodynamic shock waves. 940: (with Holter, O.) On the internal electromagnetic energy in a plasma.
- Tjutin, I. V. 4767: (with Sobel'man, I. I.) Induced radiative processes in quantum and classical theories.
- Tkalč, V. S. 5766: (with Saltanov, N. V.) On a non-stationary magneto-gasdynamical problem. The analogue of the Riemann wave.
- Tobias, T. 5291: On mean-square approximation of linear functionals.
- Toda, Hiroshi. 618: (with Mimura, Mamoru) The $(n+20)$ -th homotopy groups of n -spheres.
- Toda, Morikazu. 1926: (with Kogure, Youzou) Statistical dynamics of systems of interacting oscillators.
- Toda, Nobushige. 205: (with Matsumoto, Kikui) Analytic functions on some Riemann surfaces.
- Todorov, I. T. 3700: (with Liu, Yi-Cheng) Singularities of some Feynman graphs. 867: (with Logunov, A. A.; Nguyen Van Hieu and Khrustalev, O. A.) Asymptotic relations between cross sections in local field theory. 1895: (with Logunov, A. A.; Tavkhelidze, A. N. and Khrustalev, O. A.) Quasi-potential character of the scattering amplitude.
- Tokitake, Kusama. 664: On randomizations of confidence intervals.
- Tola P., José = Tola Pasquel, José.
- Tola Pasquel, José. 2679: ★Energy of deformation.
- Tolmachev, V. V. 1921: The criterion for superconductivity as a criterion for the appearance of an instability of the Bethe-Salpeter equation for the normal state.
- Tolmachev, V. V. = Tolmačev, V. V.
- Tomar, J. S. 775: On flexural vibrations of isotropic elastic thin square plates according to Mindlin's theory.
- Tomčuk, Ju. Ja. 3282: Polynomials which are orthogonal over a given system of arcs on the unit circle.
- Tominaga, Hisao. 3056: (with Nagahara, Takasi) Some theorems on Galois theory of simple rings. 4007a: (with Nagahara, Takasi) On Galois theory of simple rings. 4007b: (with Nagahara, Takasi) On quasi-Galois extensions of division rings. 4006: (with Nagahara, Takasi and Kishimoto, Kazuo) Supplementary remarks to the previous papers.
- Tomita, Kenji. 1975: (with Hayaashi, Chushiro) The cosmical constant and the age of the universe.
- Tondeur, Philippe. 3465: Fast-komplexe Strukturen auf einer Lieschen Gruppe.
- Tondi, A. 289: On the solution of certain problems for quasi-linear systems.
- Tondi, A. = Tondl, A.
- T'ong, Din' N'e. See Din' N'e T'ong.
- Tonin, M. 3720: (with Bastai, A.; Bertocchi, L. and Furlan, G.) On the solutions of the Bethe-Salpeter equation. 3719: (with Bastai, A.; Bertocchi, L.; Fubini, S. and Furlan, G.) On the treatment of singular Bethe-Salpeter equations.
- Tonojan, R. N. 1797: Some equivalent transformations of algorithm schemes.
- Tonojan, V. S. 5611: On a plane contact problem for an elastic quadrant.
- Toneoka, Keinosuke. 1577: Theories of surface of three-dimensional space with an algebraic metric.
- Toomre, Alar. 984: On the distribution of matter within highly flattened galaxies.
- Topa, S. 2485: Existence problem of the osculating planes of a curve in R_n . 2486: On a generalization of Frenet equations.
- Toponogov, V. A. 3392: A bound for the length of a closed geodesic in a compact Riemannian space of positive curvature.
- Topuriya, S. B. 3290: Summability of Fourier series by the $L^{(p)}$ method and by Voronoi's method. 4302: On double lacunary Fourier series.
- Tornehave, Hans. 1728: (with Andersen, Chr.; Christiansen, Svend Erik and Møller, Ole) Conformal mapping.
- Törnqvist, L. 1719: The theory of replicated systematic cluster sampling with random start.
- Tóth, Gábor Fejes. See Fejes Tóth, Gábor.
- Tóth, L. Fejes. See Fejes Tóth, László.
- Tóth, László Fejes. See Fejes Tóth, László.
- Tou, Julius T. 2016: ★Optimum design of digital control systems.
- Tevmashjan, N. E. 2325: The Dirichlet problem for an elliptic system of two second-order differential equations. 3243: Some boundary-value problems for the Laplace equation with discontinuous boundary data.
- Tovstik, P. E. 2314: Normal degeneration of boundary-value problems.
- Traczyk, T. 2065: Minimal extensions of weakly distributive Boolean algebras. 5015: An equational definition of a class of Post algebras. 2064: (with Sikorski, R.) On free products of m -distributive Boolean algebras.
- Trahtenbrot, B. A. 4542: An estimate of the weight of a finite tree.
- Tranquilli, Giovanni Battista. 5519: L'analisi della media basata sul campo di variazioni.
- Treder, H. = Treder, Hans-Jürgen.
- Treder, Hans-Jürgen. 4909: Singuläre Einstein-Räume und die Feldgleichungen von Einstein und Rosen. 5801: (with Kreisel, E. and

- Liebscher, E.) Gravitationsfelder mit Nullstellen der Determinante der $g_{\alpha\beta}$. II.
- Trehan, S. K. 816: (with Nayyar, N. K.) Oscillations of a capillary jet of finite electrical conductivity in the presence of a uniform axial magnetic field.
- Treiman, S. B. 3833: (with Salpeter, E. E.) Multiple scattering in the diffusion approximation.
- Trenogin, V. A. 3266: (with Ter-Krikorov, A. M.) Existence and asymptotic behaviour of solutions of "solitary wave" type for a class of non-linear elliptic equations.
- Trent, Horace M. 3418: A decomposition theorem concerning linear graphs.
- Tret'jakov, V. D. 4482: A conformal interpretation of symmetric, conformally Euclidean spaces.
- Tret'jakov, V. P. 4271: Multiplication of double series in the case when the partial sums of one of the series are unbounded.
- Trèves, François. 1089: Thèse d'Hörmander. I, II. 2350: Équations aux dérivées partielles à coefficients constants dépendant de paramètres.
- Treybig, L. B. 2526: Concerning homogeneity in totally ordered, connected topological space.
- Tricomi, Francesco Giacomo. 345: Sulle equazioni a derivate parziali del secondo tipo misto. 1148: Applicazioni moderne di una vecchia algebra.
- Trigg, Charles W. 4408: A model of a tetrahedron.
- Trjitzinsky, W. J. 4078: ★Totalisations dans les espaces abstraits.
- Trofimov, P. I. 3089: On the solvability of finite groups.
- Trokhimčuk, Ju. Ju. 4521: Continuous mappings of domains in Euclidean space.
- Troickij, V. A. 4404: The Mayer-Bolza problem of the calculus of variations and the theory of optimum systems.
- Trong Lieu, Bing. See Bui Trong Lieu.
- Trotter, H. F. 1618: Non-invertible knots exist.
- Trpenevski, B. 2067: On the independence of certain relations.
- Truchasson, Christian. 1834: Remarques concernant des obstacles non perturbants dans un écoulement d'infiltration.
- Trueman, T. L. 5746: (with Wick, G. C.) Crossing relations for helicity amplitudes. 3724: (with Yao, T.) High-energy scattering amplitude in perturbation theory.
- Truesdell, C. 2673: The meaning of Betti's reciprocal theorem. 2680: Remarks on hypo-elasticity.
- Truhlik, E. 1915: Singularity with respect to the momentum transfer of a certain type of graphs for low-energy nuclear reactions.
- Trümper, Manfred. 5804: (with Jordan, Pascual, Edders, Jürgen; Kundt, Wolfgang and Richter, Rainer H.) Beiträge zur Theorie der Gravitations-Strahlungsfelder. Strengere Lösungen der Feldgleichungen der allgemeinen Relativitätstheorie. V2 Beiträge...
- Tsersivadze, G. N. = Cerevadze, G. N.
- Tsirlin, A. M. = Cirlin, A. M.
- Tsirl'skil, A. V. = Cirul'skil, A. V.
- Tsuchida, Kiusuke. 4546: Operation and co-operation in the general categories.
- Tsuchikura, Tamotsu. 1446: An application of a method of Marcinkiewicz to the absolute summability of Fourier series.
- Tsukamoto, Yōtarō. 4406: A proof of Berger's theorem.
- Tsukibayashi, Shomei. 2614: On analysis of covariance with product-moment and range methods.
- Tsurumi, Shigeru. 4086: A random ergodic theorem.
- Tuck, E. O. 5641: Some methods for flows past blunt slender bodies.
- Tucker, Heward G. 630: Quasi-convergent series of independent random variables. 4509: On continuous singular infinitely divisible distribution functions. 3486: (with Stratton, Howard H., Jr.) Limit distributions of a branching stochastic process.
- Tulcea, A. Ionescu. See Ionescu Tulcea, Alexandra.
- Tulcea, Alexandra Ionescu. See Ionescu Tulcea, Alexandra.
- Tulcea, C. Ionescu. See Ionescu Tulcea, C.
- Tully, E. J., Jr. 4048: The equivalence, for varieties of semigroups, of two properties concerning congruence relations.
- Tumarkin, G. C. 197: Properties of analytic functions representable by integrals of Cauchy-Stieltjes and Cauchy-Lebesgue type. 5182: Convergent sequences of Blaschke products. 5183: Conditions for uniform convergence and convergence of boundary values of analytic and meromorphic functions of uniformly bounded characteristic.
- Tun, Van. See Van Tun.
- Tung, Kuang-chang. 5251: Boundary value problems for degenerate elliptic partial differential equations.
- Tung, Shih-Hsiung. 4135: Harnack's inequality and theorems on matrix spaces.
- Tupper, B. O. J. 1959: The partition of energy in cosmical physics.
- Turase, A. T. 3197: A qualitative investigation of the equation
- $$\frac{dy}{dx} = \frac{-x^2 + Px^2y + Qxy^2 + My^3}{y + Ax^3 + Bx^2y + Cxy + Dy^3}$$
- in the large.
- Turán, P. 103: On the distribution of zeros of general exponential polynomials. 70a: (with Knapowski, S.) Comparative prime-number theory. VII. The problem of sign-changes in the general case. 70b: (with Knapowski, S.) Comparative prime-number theory. VIII. Chebyshev's problem for $k=8$.
- Turner, Malcolm E. 3509: (with Monroe, Robert J. and Homer, Louis D.) Generalized kinetic regression analysis: Hypergeometric kinetics.
- Turowicz, A. 4672: (with Górecki, H.) Sur les équations algébriques trinômes.
- Turquette, Atwell R. 2965: Modality, minimality, and many-valuedness.
- Turski, Władysław. 5893: On a possible realization of an automaton determining the domain of practical stability.
- Tutschke, Wolfgang. 228: Über ein Randwertproblem für die Richtungen der Niveaulinien harmonischer Funktionen. 2197: Eine Bemerkung zu einer Abschätzung von O. Zaubek für die Nullstellen von Polynomen.
- Tutte, W. T. 606: The thickness of a graph. 1610: How to draw a graph. 2534: From matrices to graphs. 2535: The non-biplanar character of the complete 9-graph.
- Tverberg, Helge. 1205: On the permanent of a bistochastic matrix.
- Tyablikov, S. V. = Tjablikov, S. V.
- Tyagi, B. N. 5535: A note on the construction of a class of second order rotatable designs.
- Tynjanskij, N. T. 3421: Homological properties of the distribution of sets in polyhedra and manifolds described by sequences of strong and weak homology groups.
- Tyutin, I. V. = Tjutin, I. V.
- Tzénoff, I. = Cenov, I. V.
- Uchiyama, Saburō. 2101: On a theorem concerning the distribution of almost primes.
- Uemay, Peter. 2108: Formales Rechnen in Potenzreihenkörpern.
- Ueda, Yoshiaki. 2841: (with Okubo, Susumu) General theory of angular correlations of successively decaying particles. 2309: (with Hayaashi, C. and Shibayama, H.) Quasi-periodic oscillations in a self-oscillatory system with external force.
- Uehara, Hiroshi. 5104: Homological invariants of local rings. 2555: (with Shekoury, Raymond N.) Some remarks on Postnikov complexes and fibre spaces.
- Ufjand, Ja. S. = Ufjand, Ja. S.
- Ufjand, Ja. S. 5625: Oscillations of elastic bodies with finite conductivity in a transverse magnetic field.
- Uhlenbeck, G. E. 923: (with Hemmer, P. C. and Kac, M.) On the van der Waals theory of the vapor-liquid equilibrium. III. Discussion of the critical region.
- Uhlmann, Armin. 4926: Remark on the future tube. 5704: The closure of Minkowski space.
- Uhlmann, W. 674: Ranggrößen als Schätzfunktionen.
- Ulanovskij, V. P. 3524: (with Hovanskij, G. S.) ★The interpolation of tabulated functions of several variables by numerical and nomographic representation.
- Üllela, I. 4872: (with Pluhaf, Z.) Perturbation theory for system of many-fermions starting from degenerate state.
- Uf'janov, P. L. 4294: Solved and unsolved problems in the theory of trigonometric and orthogonal series. 4295: On Haar series.

- Ullah, Nazakat. 4960: Reduced width amplitude distributions for the unitary ensemble.
- Ulm, S. 791: Interpolation methods for solving non-linear equations in a Banach space. 1734: Iterative methods of solving a non-linear equation based on linearization by the Newton interpolation formula. 3535: On an interpolation analogue of the gradient method.
- Umegaki, Hisaharu. 2169: A functional method on amount of entropy.
- Umesawa, Hiroomi. 4823: (with Takahashi, Yasushi) Relativistic quantization of fields. 4851: (with Ezawa, Hiroshi and Muta, Taizo) An approach to the elementarity of particles.
- Umesawa, M. 2171: Invariant quantities in semi-simple groups. I.
- Unal, B. C. 868: (with Barut, A. O.) Amplitudes and crossing relations in inosin.
- Unger, Peter. 2481: (with Leavitt, Jay) Circle supports the largest sandpile.
- Uno, Toshio. 4690: Problems of error propagation.
- Unti, T. W. J. 965: (with Newman, Ezra T.) A class of null-flat space coordinate systems.
- Ural, M. 4693: Numerical study of periodic solutions of van der Pol's equation.
- Ural'eva, N. N. 5256: (with Ladyženskaja, O. A.) Hölder continuity of solutions and their derivatives for linear and quasi-linear equations of elliptic and parabolic type. 2340: (with Plotnikov, V. I. and Sigalov, A. G.) Quasi-linear elliptic equations and variational problems.
- Uranisi, Hisao. 3512: Symmetric designs for exploring response surfaces.
- Urbanik, K. 2068: Remarks on independence in finite algebras. 3481: Generalized convolutions. 3350: Remarks on ordered absolute-valued algebras.
- Urbanowski, Wojciech. 709: (with Guo, Zhong-Heng) Stability of non-conservative systems in the theory of elasticity of finite deformations.
- Urkowitz, Harry. 5853: Pre-envelopes of nonstationary bandpass processes.
- Usiskin, Zalman. 4560: Max-min probabilities in the voting paradox.
- Usol'cev, L. P. 2102: On an exponential rational trigonometric sum of special type.
- Uspenskij, A. B. 732: (with Budak, B. M.) A difference method for solving boundary-value problems for an integro-differential equation of parabolic type with discontinuous coefficients.
- Utumi, Yuzo. 5077: (with Faith, Carl) Intrinsic extensions of rings.
- Utz, W. R. 3412: (with Poland, N. E.) The embedding of discrete flows in continuous flows.
- Uzdalov, A. I. 2699: A plane thermo-elasticity problem for an anisotropic body.
- Uždavinis, R. 1164: Arithmetic functions on the sets of values of integer-valued polynomials.
- Uskov, A. I. 1214: On the decomposition of modules over a commutative ring into direct sums of cyclic submodules.
- van der Vaart, H. R. 4934: The role of mathematical models in biological research.
- Vacca, R. 2658: A three valued system of logic and its applications to base three digital circuits.
- Vachaspati. 1865: Exact solution of relativistic equations of motion of an electron in an external radiation field. 1869: (with Punhani, Sudarshan L.) Scattering of electromagnetic radiation by free electrons into waves of half the incident wave-length.
- Vagabov, A. I. 5264: Correctness conditions for one-dimensional mixed problems for hyperbolic systems.
- Vagner, V. V. 3383: On Ehresmann's theory of jets. 4040: Semi-groups of partial mappings with a symmetric transitivity relation.
- Vagrado, G. M. 1913: On the theory of nuclear reactions.
- Vaida, Dragos. 2163: ★Groupes ordonnés dont les éléments admettent une décomposition jordanienne généralisée.
- Vaillant, Jean. 1956: Sur les discontinuités du tenseur de courbure en théorie d'Einstein-Schrödinger.
- Vainberg, B. R. 5257: Hypo-elliptic equations in the whole space and the principle of limiting absorption.
- Vainikko, G. 725: Error bounds for the Galerkin method for a linear differential equation. 726: Error bounds for the Ritz method for a linear homogeneous equation.
- Vaintrub, M. R. 4400: Cyclic and spherical manifolds in conformal geometry.
- Vaitkevičius, I. M. 1181: A bound for the remainder term in the asymptotic law of distribution of primes of the Gaussian field.
- Vajda, Stefan. 1002: Ein paradoxes Resultat der Ökonometrie. 1988: ★Theorie der Spiele und Linearprogrammierung.
- Vaks, V. G. 5737: (with Larkin, A. I.) Amplitude singularities at $l = -1$ in the Bethe-Salpeter equations.
- Vala, Josef. 3378: Über die Kongruenz W mit geradlinigen Brennflächen.
- Valat, Jean. 5780: Sur différentes méthodes de corrélation. Application à la mesure des fortes antiréactivités d'un réacteur nucléaire sous-critique.
- Valderrama, Jerko. 614: Sur le groupe fondamental d'un espace sur lequel opère un H -espace.
- Valiev, K. G. 280: On the convergence of series determining the boundaries of the regions of instability of solutions of a second order linear differential equation with periodic coefficients.
- Valentine, F. A. 521: The dual cone and Helly type theorems.
- Valeškevič, I. N. 337: Some mixed problems for the biharmonic wave equation.
- Vallander, S. V. 2566: (with Nagnibeda, E. A.) General formulation of problems describing relaxation processes in gases with internal degrees of freedom.
- Value, I. I. 47: Left ideals of the semigroup of endomorphisms of a free universal algebra.
- Van, Chahao-lin = Van, Čiao-lin.
- Van, Čiao-lin. 5232: On the converse of Routh's theorem.
- Van, Sen-van = Wang, Sheng-Wang.
- Van, Z. H. = Wang, J. H.
- Van der Corput, J. G. = van der Corput, J. G.
- Van Hieu, Nguyen. See Nguyen Van Hieu.
- Van Hove, L. 3740: Exchange contributions to high energy scattering and imaginary character of the elastic amplitude. 4906: High-energy collisions of strongly interacting particles.
- Van Rest, E. D. 4004: The teaching of applied statistics in Great Britain.
- Vanstone, J. R. 1943: The Hamilton-Jacobi equations for a relativistic charged particle.
- Van Trees, Harry L. 1027: A lower bound on stability in phase-locked loops.
- Van Tun. 1352: The enlargement property of direct values of generalized potentials for the comparison function and the principal fundamental solution of the general second-order elliptic equation.
- Van Vleck, F. S. 5217: A note on the relation between periodic and orthogonal fundamental solutions of linear systems.
- Varadarajan, V. S. 3139: Groups of automorphisms of Borel spaces.
- Varga, Richard S. 1725: ★Matrix iterative analysis. 3544: (with Griffin, D. S.) Numerical solution of plane elasticity problems. 3545: (with Douglas, J., Jr. and Kellogg, R. B.) Alternating direction iteration methods for n space variables.
- Varlet, Jules. 2984: Congruences dans les treillis pseudo-complémentés.
- Varley, Eric. 1367: A class of non-linear partial differential equations.
- Varopoulos, Nicholas Th. 4396: Sur les mesures de Radon d'un groupe localement compact abélien. 4387: Continuité des formes linéaires positives sur une algèbre de Banach avec involution. 5301: Sur les mesures de Radon d'un groupe localement compact.
- Varopoulos, Nicolas Th. = Varopoulos, Nicholas Th.
- Varshney, O. P. 3288: On the absolute Nörlund summability of a Fourier series.
- Vartak, M. N. 5536: Disconnected balanced designs.
- Vasconi, Amina. 338: Sull'equazione delle onde con termine noto quasi-periodico secondo Stepanoff.
- Vasenin, V. V. 4452: On the equi-affine theory of triples of non-holonomic surfaces.
- Vasil'eva, A. B. 298: Asymptotic methods in the theory of ordinary differential equations with small parameters multiplying the highest derivatives. 1363: Asymptotic behaviour of solutions of certain problems for ordinary non-linear differential equations with a small

- parameter multiplying the highest derivatives. 299: (with Tihonov, A. N. and Volosov, V. M.) Differential equations containing a small parameter.
- Vasquez, A. T. 2141: (with Charlap, L. S.) The cohomology of group extensions.
- Vasudevan; Ramabhadra. 962: (with Bellman, Richard and Kalaba, Robert) Invariant imbedding and the Townsend avalanche. 4901: (with Bellman, Richard and Kalaba, Robert) Invariant imbedding theory of neutron transport: Correlation functions.
- Vaught, Robert L. 32: On a theorem of Cobham concerning undecidable theories.
- Vedernikov, V. I. 2495: The metric characteristic of certain classes of hypersurfaces. 2496: Conformal applicability of surfaces in the space M_n .
- Veldinger, L. 727: On the method of characteristics.
- Veivoda, O. = Veyvoda, O.
- Veksler, A. I. 4341: Linear structures with a sufficient set of maximal I -ideals.
- Vekua, I. N. 1312: ★Verallgemeinerte analytische Funktionen. 1375: Equations and systems of equations of elliptic type.
- Veldkamp, F. D. 1526: An axiomatic treatment of polar geometry.
- Velikh, A. P. 3228: On a representation for solutions of differential-difference equations with constant coefficients.
- Venkatesan, K. 3719: (with Ramakrishnan, Alladi and Devanathan, V.) A note on the use of Wick's theorem.
- Venkov, B. A. 1538: (with Delone, B. N.) On regular partitions of space. 5377: (with Venkov, B. B.) On the automorphisms of a convex cone.
- Venkov, B. B. 5377: (with Venkov, B. A.) On the automorphisms of a convex cone.
- Ventcel', E. S. 3881: ★Lectures on game theory.
- Ventcel', T. D. 4252: Quasi-linear parabolic systems with increasing coefficients.
- Ventsel, E. S. = Ventcel', E. S.
- Verbickii, L. L. 5395: Three-dimensional hypersurfaces realizing a conformally Euclidean metric.
- Verboven, E. 3802: The master equation with special transition probabilities. 4903: (with Michel, K. H.) On the interference between streaming and collision in transport equations.
- Vere-Jones, D. 1666: On the spectra of some linear operators associated with queueing systems. 5488: A rate of convergence problem in the theory of queues.
- Verhovskii, B. S. 5826: On multi-index transportation problem with axial sums.
- Verma, Arun. 2264: Certain expansions of generalised basic hypergeometric functions. 3181: General expansions involving E -functions.
- Verma, C. B. L. 1449: On generalised Laplace transforms and infinite integrals involving G - and E -functions.
- Verma, D. P. 5046: Laurent's expansion of Riemann's zeta-function.
- Verma, P. D. S. 4712: Symmetrical expansion of a hollow spherical dielectric.
- Verner, A. L. 519: Surfaces whose plane sections consist of convex pieces.
- Vernon, F. L., Jr. 837: (with Feynman, R. P.) The theory of a general quantum system interacting with a linear dissipative system.
- Vernotte, Pierre. 1739: La sommation des séries divergentes à termes positifs, par les conditions de régularité.
- Vetchinkin, S. I. = Vetëinkin, S. I.
- Vetëinkin, S. I. 3657: Determination of optimal functions in approximating matrix elements.
- Veyvoda, O. 3254: On the periodic motion of a weakly non-linear string.
- Vichmann, F. 2380: An extension of the method of Peyerimhoff to the case of generalized summability factors. 2381: Theorems of Bohr-Hardy type for double series.
- Vidal, Pierre. 2368: (with Wengrzyn, Stefan) Sur la stabilité asymptotique d'une équation non linéaire aux différences finies d'ordre n . 2369: (with Wengrzyn, Stefan) Sur la stabilité asymptotique d'une équation non linéaire aux différences finies du deuxième ordre.
- Vigier, Jean-Pierre. See de Broglie, Louis, #3739.
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- Vihmann, F. = Vichmann, F.
- Vilenkin, N. Ja. 465: On the theory of positive definite generalized kernels. 2172: The hypergeometric function and representations of the group of real second-order matrices. 3324: (with Gel'fand, I. M. and Graev, M. I.) ★Generalized functions, No. 5. Integral geometry and related problems in the theory of distributions.
- Villa, Mario. 534: Sull'elemento del terzo ordine di una curva sghemba.
- Villaggio, Piero. 1819: Sul problema variazionale della lastra curva a simmetria assiale.
- Villani, Vinicio. 248: Sulle varie nozioni di dimensione per un insieme analitico. 3174: Frontiere di Silov negli spazi complessi e applicazioni ologomorfe proprie.
- Villegas, C. 3006: On the least squares estimation of a linear relation. 2007: On the least squares estimation of a linear relation.
- Vinberg, E. B. 1637: The theory of homogeneous convex cones. 1638: (with Gindikin, S. G. and Piateckii-Sapiro, I. I.) Classification and canonical realization of complex homogeneous bounded domains.
- Vincensini, Paul. 3372: Sur la déformation des réseaux cinématique conjugués.
- Vinice, I. 3468: (with Csáki, E.) On some combinatorial relations concerning the symmetric random walk.
- Vinogradov, A. I. 1190: On the zeros of Siegel. 3925: Bounds from below by the sieve method in algebraic number fields.
- Vinogradov, I. M. 65: On the number of integer points in a sphere.
- Vinogradov, N. N. 1353: Existence of a periodic solution of an autonomous system of ordinary differential equations.
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- Vinokurov, V. R. 1457: Approximation of quasi-linear Volterra integral equations by algebraic equations.
- Vinson, John. 1154: The relation of the period modulo to the rank of apparition of m in the Fibonacci sequence.
- Vinti, Calogero. 493: Sopra una definizione dell'integrale multiplo del calcolo delle variazioni in forma ordinaria. 3261: Un teorema di esistenza per i sistemi di equazioni alle derivate parziali della forma $p^{(0)} = f^{(0)}(x, y, z^{(1)}, z^{(2)}, \dots, z^{(n)}, q^{(0)})$. 4076: (with Baidia, E.) Generalizzazioni non Markoviane della definizione di perimetro.
- Vitlik, M. I. 360: Boundary-value problems for quasi-linear parabolic systems of equations and the Cauchy problem for hyperbolic equations. 361: Solubility of boundary-value problems for quasi-linear parabolic equations of higher orders. 4319: (with Èskin, G. I.) Boundary-value problems for general singular equations in a bounded domain. 2349: (with Silov, G. E.) The general theory of partial differential equations and certain problems in the theory of boundary-value problems.
- Vizkov, O. V. 4592: Two asymptotic formulae for queueing theory.
- Vislavskii, M. N. 4039: On irreducible representations of finite metabelian p -groups.
- Vivès, Charles. 2769: (with Crausse, Étienne and Poirier, Yves) Étude théorique des oscillations forcées sinusoïdales entre plans parallèles indéfinis d'un liquide électroconducteur, en présence d'un champ magnétique transversal.
- Vladimirov, Ju. S. 2811: Gravitational transmutations of fermions.
- Vladimirov, V. S. 3173: (with Širinbekov, M.) On the construction of envelopes of holomorphy for Hartogs domains.
- Vladimirov, Yu. S. = Vladimirov, Ju. S.
- Vleck, F. S. Van. See Van Vleck, F. S.
- Vodicka, V. 1820: Longitudinal vibrations of homogeneous bars with variable cross-section. 4714: Forced vibrations of a composite annular membrane. 4782: Steady temperature in a composite corner.
- Voelkov, V. V. 5561: (with Jaroševskii, V. A.) A method of accelerating the calculation of rapid quasi-periodic motions on a digital computer.
- Voevodin, V. V. 4000: The convergence of the orthogonal power method.
- Vogel, T. 2668: Systèmes déferlants, systèmes héréditaires, systèmes dynamiques.

- Vogel, Walter. 2583: Die kombinatorische Lösung einer Operator-Gleichung.
- Voicenja, V. S. 3616: On the oscillations of a body above the interface between two liquids.
- Voichick, Michael. 4129: Ideals and invariant subspaces of analytic functions.
- Voitsenla, V. S. = Voicenja, V. S.
- Voleviš, L. R. 5248: A problem in linear programming stemming from differential equations.
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- Volkov, Anatole B. 905: A soluble model for combined pairing and monopole-monopole interactions.
- Volkov, D. V. 5736: Factorization at the Regge pole of scattering amplitudes of particles with spin. 861: (with Bakai, A. F.) On quantum electrodynamics with a reggized photon.
- Volkov, E. A. 1779: On methods of refinement using higher-order differences and h^2 -extrapolations.
- Volkov, M. S. 5811: Rotational motion of artificial satellites in an elliptic orbit. 5812: A periodic solution of the second kind which represents the rotation of a satellite in a circular orbit.
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- Volland, Hans. 4775: Die Streumatrix der Ionosphäre.
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- Vollrath, Hans-Joachim = Vollrath, Hans-Joachim.
- Vol'mir, A. S. 1831: ★Stability of elastic systems.
- Vololina, M. S. 3237: On the generalized Cauchy formula for a first-order elliptic system.
- Volosov, V. M. 5213: (with Morgunov, B. I.) Asymptotic behaviour of certain rotary motions. 299: (with Tihonov, A. N. and Vasil'eva, A. B.) Differential equations containing a small parameter.
- Vollolini, Francesco. 1810: Lastre e striscie forate soggette a tensioni piane.
- Vol'vačev, R. T. 4037: Sylow p -subgroups of the full linear group.
- Vopenka, Petr = Vopěnka, Petr.
- Vopěnka, Petr. 3931: Submodels of models of set theory.
- Vorob'ev, N. N. 4001: An extremal matrix algebra. 5471: On families of random transitions.
- Voroncov, V. I. 5800: (with Levashev, A. E.) The orientability of the physical tetrad in relativistic electrodynamics.
- Voronisev, V. I. = Voroncov, V. I.
- Vorovič, I. I. 1815: Some representations in general form of solutions to the equations of the theory of shallow shells.
- Vosiljus, R. 533: Some problems in the theory of surfaces.
- Vostrecov, B. A. 172: Conditions for the representability of a function of several variables as the sum of a finite number of plane waves of prescribed direction.
- Vranceanu, Georges. 551: Sur une classe d'espaces homogènes A_n . 1525: Détermination des groupes discrets commutatifs du plan affine. 2509: Sur les densités associées à un espace A_2 avec torsion. 2510: Variété différenciable immersioni degli spazi proiettivi.
- Vranceanu, Gheorghe = Vranceanu, Georges.
- Vu, Tuan. 3216: On the operational theory of I. Z. Štokalo for solving linear differential equations.
- Vuilleumier, Monique. 3949: Théorèmes du type de Toeplitz-Schur dans l'ensemble ordonné des suites.
- Vukovitch, Milan. 818: (with Boreli, Mladen) Sur l'écoulement non permanent dans deux couches de perméabilité très différente.
- Vulih, B. Z. 1472: ★Einführung in die Funktionalanalysis. Teil 2.
- Výborný, R. 3120: (with Diaz, J. B.) On mean value theorems for strongly continuous vector valued functions.
- Vyšin, V. 4927: The possibility of an interpretation of Kantor's direct first-order experiment on the propagation of light from a moving source.
- Wada, Junzo. 1503: On the Šilov boundaries of function algebras.
- Wadhwa, Y. D. 4738: Unsteady stagnation flow towards a rotating lamina.
- Wagner, D. 952: (with Sauter, F.) Zur Theorie des Mössbauer-Effektes.
- Wagner, F. J. 2522: Normal base compactifications.
- Wagner, H. M. 998: (with Bear, D. V. T. and Jorgenson, D.) Elementary proofs of propositions on Leontief-Minkowski matrices.
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- Wagner, Norman. 5208: Existence theorem for a non-linear boundary value problem in ordinary differential equations.
- Wagner, Richard. 4415: Projektivitäten auf Quadriken.
- Wainwright, W. L. 3579: On a nonlinear theory of elastic shells.
- Waligórski, Stanisław. 4988: Calculation of prime implicants of truth functions. 5889: On superpositions of zero-one functions.
- Walker, C. C. 1017: (with Ashby, W. R. and von Foerster, H.) Instability of pulse activity in a net with threshold.
- Walker, E. A. 125: (with Harrison, D. K.; Irwin, J. M. and Peercy, C. L.) Higher extensions of Abelian groups.
- Walker, R. J. 1219: Determination of division algebras with 32 elements.
- Wall, C. T. C. 133: Quadratic forms on finite groups, and related topics. 2540: An obstruction to finiteness of CW-complexes.
- Wallace, A. D. 1245: Relative ideals in semigroups. II. The relations of Green.
- Walldin, K. E. 3473: Stochastic processes with stationary and independent increments. I.
- Walsh, J. L. 400: †Note on the convergence of approximating rational functions of prescribed type. 4092: A theorem of Grace on the zeros of polynomials, revisited. 4283: Padé approximants as limits of rational functions of best approximation. 4093: (with Landau, H. J.) On canonical conformal maps of multiply connected regions. 5279: (with Motzkin, T. S.) Best approximators within a linear family on an interval. 5278: (with Sharma, A.) Least squares and interpolation in roots of unity.
- Walsh, John E. 4638: ★Handbook of nonparametric statistics. Investigation of randomness, moments, percentiles, and distributions. 5506: Approximate distribution of extremes for nonsample cases.
- van der Walt, A. P. J. 3050: Contributions to ideal theory in general rings.
- Walters, K. 1855: (with Thomas, R. H.) The stability of elastico-viscous flow between rotating cylinders. I. 1856: (with Thomas, R. H.) The stability of the flow of an elastico-viscous liquid in a curved channel. 5667: (with Thomas, R. H.) The motion of an elastico-viscous liquid due to a sphere rotating about its diameter.
- Walters, R. S. 2585: (with Hammersley, J. M.) Percolation and fractional branching processes.
- Waltman, P. E. 2290: The equations of growth.
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- Wan, Cheh-hsian. 5116: A proof of a theorem on automorphisms of linear groups.
- Wan, Che-hsien = Wan, Cheh-hsian.
- Wanders, G. 2833: Consistency problems in a recent model of high-energy scattering.
- Wang, Chiu-sen. 2948: (with Fan, Liang-tseng) Optimization of one-dimensional multistage processes.
- Wang, D. P. 3615: (with Wu, T. Yao-tau) A wake model for free-streamline flow theory. II. Cavity flows past obstacles of arbitrary profile.
- Wang, H. S. C. 942: (with Lojko, M. S.) Nonlinear transverse waves in plasmas.
- Wang, Hao. 4998: (with Rabin, Michael O.) Words in the history of a Turing machine with a fixed input.
- Wang, Hong-sheng = Wang, Hung-shen.
- Wang, Hsien-Chung. 3117: Some geometrical aspects of coset spaces of Lie groups.

- Wang, Hung-shen. 5185: Generalized analytic functions of classes B , H , D , A , and the convergence of sequences of such functions.
- Wang, J. H. 395: The approximation of unbounded functions by modified Landau and Bernstein polynomials over the entire plane.
- Wang, John S. P. 3094: On completely decomposable groups.
- Wang, Ju-Kwei. 2459: (with Srinivasa, T. P.) On the maximality theorem of Werner.
- Wang, K. C. 5659: Unsteady linearized relaxing flow past slender bodies.
- Wang, P. Keng Chieh. 3244: Asymptotic stability of a time-delayed diffusion system. 304: (with Bandy, M. L.) Stability of distributed-parameter processes with time-delays.
- Wang, Sheng-Wang. 444: On the solutions of the Hammerstein integral equations.
- Warburton, A. E. A. 4844: The analytic properties of Regge trajectories. I.
- Ward, M. 5079: (with Dade, E. C.; Robinson, D. W. and Tausky, O.) Divisors of recurrent sequences.
- Ware, Willis H. 740a: ★Digital computer technology and design. Vol. I: Mathematical topics, principles of operation, and programming. 740b: ★Digital computer technology and design. Vol. II: Circuits and machine design.
- Warga, J. 5834: Minimizing certain convex functions. 5835: A convergent procedure for convex programming.
- Warne, R. J. 5430: (with Doyle, P. H.) Some properties of groupoids.
- Wasil, Z. U. A. 790: Unsteady rotation of a solid sphere in a viscous fluid.
- Wasow, W. 297: Periodic singular perturbations of ordinary differential equations.
- Watabe, Mitsuo. 5765: A note on the thermodynamic potential of an interacting electron-phonon system.
- Watanabe, Keiji. 4816: (with Kaneko, Takao and Ohnuki, Yoshio) Diagonalization of the particle mixture interaction.
- Watanabe, Shōji. 1947: On the theory of general geometrodynamics.
- Watari, Chinami. 2398: Contraction of Walsh Fourier series.
- Waterman, P. C. 2269: Roots of Legendre functions of variable index.
- Watson, G. L. 1172: One-class genera of positive quadratic forms.
- Weesakul, B. 647: (with Yeo, G. F.) Some problems in finite dams with an application to insurance risk.
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- Weier, Joseph. 3692: Une contribution au formalisme quantique de M. Daniel Kastler.
- Weil, André. 1082: Théorèmes fondamentaux de la théorie des fonctions thêta (d'après des mémoires de Poincaré et Frobenius). 1086: Sur la théorie du corps de classes. 1086: Variété de Picard et variétés jacobiniennes. 1089: Multiplication complexe des fonctions abéliennes. 1090: Sur le théorème de Torelli. 1091: Adèles et groupes algébriques.
- Weinacht, R. J. 4240: Fundamental solutions for a class of singular equations.
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- Weinberg, Steven. 5705: Perturbation theory for strong repulsive potentials. 3712: (with Goldstone, Jeffrey and Salam, Abdus) Broken symmetries.
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- Weinert, H. J. 4012: Über Halbringe und Halbkörper. III.
- Weinstock, Jerome. 4881: Cluster formulation of the exact equation for the evolution of a classical many-body system. 4882: Three-body scattering operator in nonequilibrium statistical mechanics.
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- Weis, Jürgen. 5024: (with Rohrbach, Hans) Zum finiten Fall des Bertrandischen Postulats.
- Weisfeld, Morris. 2909: Polar orbits of near Earth satellites. 3862: The convergence of an approximation used in the relativistic mass-center problem.
- Weiss, Edwin. 3021: ★Algebraic number theory.
- Weiss, G. = Weiss, Guido.
- Weiss, George H. 2624: (with Zelen, Marvin) A stochastic model for the interpretation of clinical trials. 5761: (with Andersen, H. C.; Oppenheim, I. and Shuler, Kurt E.) Exact conditions for the preservation of a canonical distribution in Markovian relaxation processes.
- Weiss, Guido. 3298: (with O'Neil, R.) The Hilbert transform and rearrangement of functions. 1309: (with Weiss, Mary) A derivation of the main results of the theory of H^p spaces.
- Weiss, Leonard. (with McDonough, R. N.) Prony's method, Z -transforms, and Padé approximation [MR 27 #6074].
- Weiss, Lionel. 1707: (with Freeman, David) Sampling plans which approximately minimize the maximum expected sample size.
- Weiss, M. 5295: On symmetric derivatives in L^p . 1309: (with Weiss, Guido) A derivation of the main results of the theory of H^p spaces.
- Weiss, N. O. 809: The development of a shock from standing waves of finite amplitude in an isentropic fluid.
- Weisinger, Johannes. 4718: Theorie des Tragflügels bei stationärer Bewegung in reibungslosen, inkompressiblen Medien.
- Weitzman, R. A. 3502: (with Ross, John) The twenty-seven per cent rule.
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- Welch, Peter D. 4593: On pre-emptive resume priority queues.
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- Wenger, Alfred. 668: Nomographische Darstellung statistischer Prüfverfahren.
- Wengryz, Stefan. 2368: (with Vidal, Pierre) Sur la stabilité asymptotique d'une équation non linéaire aux différences finies d'ordre m . 2369: (with Vidal, Pierre) Sur la stabilité asymptotique d'une équation non linéaire aux différences finies du deuxième ordre.
- Werner, John. 5355: Analytic disks in maximal ideal spaces.
- Werner, H. 1328: (with Raymann, G.) An approximation to the Fermi integral $F_{1/2}(x)$.
- Werner, Peter. 820: On the exterior boundary value problem of perfect reflection for stationary electromagnetic wave fields.
- Wertheim, M. S. 4888: Analytic solution of the Percus-Yevick equation.
- Wesolowski, Zbigniew. 5615: The axially symmetric problem of stability loss of an elastic bar subject to tension.
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- Wetterling, W. 704: Anwendung des Newtonschen Iterationsverfahrens bei der Tschebyscheff-Approximation, insbesondere mit nichtlinear auftretenden Parametern. I. 2652: ★Ein Verfahren zur Abschätzung des Unterschiedes zwischen den Lösungen benachbarter Operatorgleichungen.
- Weygandt, C. N. 5219: (with Puri, N. N.) Second method of Liapunov and Routh's canonical form. 5220: (with Puri, N. N.) A contribution to the transform calculus used in the synthesis of control systems.
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- White, Harrison C. 35: ★An anatomy of kinship. Mathematical models for structures of cumulated roles.

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- Whittlesey, E. F. 4532: Fixed points and antipodal points.
- Whyburn, G. T. 1558: Generic and related mappings.
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- Wick, G. C. 5746: (with Trueman, T. L.) Crossing relations for helicity amplitudes.
- Widder, D. V. 364: Analytic solutions of the heat equation. 1319: Sur une classe de fonctions $u(x, y, t)$ harmoniques en (x, y) et satisfaisant l'équation de la chaleur en (x, t) . 4140: Functions of three variables which satisfy both the heat equation and Laplace's equation in two variables. 4306: The inversion of a transform related to the Laplace transform and to heat conduction.
- Wiegold, James. 2168: Semigroup coverings of groups. I, II.
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- Wightman, A. S. 4807: (with Streater, R. F.) ★PCT, spin and statistics, and all that.
- van Wijngaarden, L. 2732: On the Kramers-Kronig relations, with special reference to gravity waves.
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- Wilde, Piotr. 2703: Postbuckling behaviour of plates due to a temperature field.
- Wildenhain, Günther. 5246: (with Anger, Gottfried) Ein Kapazitätsbegriff für gewöhnliche Differentialgleichungen.
- Wilder, R. L. 1004: Freeness in n -space.
- Wilets, L. 2850: (with Koltun, D. S.) Nuclear many-body problem with nonuniform density. I. Theory.
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- Wilk, M. B. 675: (with Gnanadesikan, R. and Huyett, Marilyn J.) Estimation of parameters of the gamma distribution using order statistics. 676: (with Gnanadesikan, R. and Huyett, Marilyn J.) Separate maximum likelihood estimation of scale or shape parameters of the gamma distribution using order statistics. 1675: (with Hogben, D. and Pinkham, R. S.) The moments of a variate related to the non-central t . 1676: (with Hogben, D. and Pinkham, R. S.) An approximation to the distribution of Q (a variate related to the non-central t).
- Wilkin, C. 3728: Cuts and poles in the angular-momentum plane.
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- Wilkinson, J. H. 1744: Plane-rotations in floating-point arithmetic. 4661: ★Rounding errors in algebraic processes.
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- Williams, A. C. 2920: A stochastic transportation problem. 3878: (with Abadie, Jean M.) Dual and parametric methods in decomposition.
- Williams, J. S. 661: Index selection and estimation from a single sample.
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- Williams, W. H. 1094: The precision of some unbiased regression estimators.
- Williamson, E. 1670: (with Brotherton, M. H.) Tables of the logarithmic series distribution.
- Williamson, J. H. 3135: ★Lebesgue integration.
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- Wilson, Alan. 2228: Functions which have harmonic support.
- Wilson, D. H. 2738: Dual solutions of the Greenspan-Carrier equations.
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- Wilson, J. C. = Wilson, Joseph C.
- Wilson, Jack C. 5333: (with Rinehart, R. F.) Functions on algebras under homomorphic mappings.
- Wilson, Joseph C. 3203: Algebraic periodic solutions of $\dot{x} + f(x)\dot{x} + g(x) = 0$.
- Wimp, J. 255: (with Luke, Y. L.) Jacobi polynomial expansions of a generalized hypergeometric function over a semi-infinite ray.
- Winer, P. 2611: The estimation of the parameters of the iterated exponential distribution from singly censored samples.
- Wing, G. M. 1937: (with Bailey, P. B.) A correction to some invariant imbedding equations of transport theory obtained by "particle counting".
- Winograd, S. 4960: Redundancy and complexity of logical elements.
- Wit, Romuald. 3721: (with Namysłowski, Józef) Asymptotic properties and zeros of the forward scattering amplitude.
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- Witzgall, Christoph. 4951: An all-integer programming algorithm with parabolic constraints.
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- Wauk, Miłosz. 2718: The influence of torsion on the tension of a prismatic bar of any profile in the elastic-plastic range.
- Wohlfahrt, Klaus. 709: Über die Berechnung der Periodenverhältnisse elliptischer Gebilde.
- Wojtezak, L. 2847: About the energy eigenvalues and eigenfunctions in the statistical theory of atom.
- Wold, H. 1979: Zeitreihenprognosen nach dem Kettenprinzip.
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- American Mathematical Society, Symposia in Applied Mathematics. 3: ★Proceedings of Symposia in Applied Mathematics, Vol. XV: Experimental arithmetic, high speed computing and mathematics. 1080: ★Proceedings of Symposia in Applied Mathematics. Vol. XIV: Mathematical problems in the biological sciences. 3906: ★Proceedings of Symposia in Applied Mathematics. Vol. XVI: Stochastic processes in mathematical physics and engineering.
- American Mathematical Society Translations. 2: ★American Mathematical Society Translations. Series 2, Vol. 31: 6 lectures delivered at the International Congress of Mathematicians in Stockholm, 1962. 1070: ★American Mathematical Society Translations. Series 2, Vol. 22: 9 papers on analysis. 1071: ★American Mathematical Society Translations. Series 2, Vol. 23: 9 papers on logic and quantum electrodynamics. 1072: ★American Mathematical Society Translations. Series 2, Vol. 24: 8 papers on differential equations. 1073: ★American Mathematical Society Translations. Series 2, Vol. 25: 12 papers on analysis, applied mathematics, and algebraic topology. 3907: ★American Mathematical Society Translations. Series 2, Vol. 37: 22 papers on algebra, number theory and differential geometry. 3908: ★American Mathematical Society Translations. Series 2, Vol. 38: 16 papers on topology and 1 on game theory. 3909: ★American Mathematical Society Translations. Series 2, Vol. 39: 15 papers on topology and logic.
- Annual Review in Automatic Programming. 3553: ★Annual Review in Automatic Programming. Vol. 3.
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- Computational mathematics and technology. 3531: ★Computational mathematics and technology.
- Deuxième Congr. de A.F.C.A.L.T.I. 1079: ★Deuxième Congrès de l'Association Française de Calcul et de Traitement de l'Information, Paris, 18-19-20 octobre, 1961.
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- Les Équations aux Dérivées Partielles. 1078: ★Les Équations aux Dérivées Partielles, Paris, 25-30 juin, 1962.
- Ergodic Theory (Internat. Sympos., Tulane Univ., New Orleans, La., 1961). 2188: ★Ergodic theory.
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- Handbuch der Physik. 1831: ★Handbuch der Physik. Band VIII/2: Strömungsmechanik. II.
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- Philosophy of Science: The Delaware Seminar. 15: ★Philosophy of Science: The Delaware Seminar. Vol. 1: 1961-1962. 2935: ★Philosophy of Science: The Delaware Seminar. Vol. 2: 1962-1963.
- Physical acoustics. 4751: ★Physical acoustics: Principles and methods. Vol. I—Part A: Methods and devices.
- Platone e la matematica nel mondo antico. 2032: ★Platone e la matematica nel mondo antico.
- Potential theory. 2031: ★Séminaire de théorie du potentiel, dirigé par M. Brelot, G. Choquet et J. Deny. 5ième année: 1960/61.
- Problems in the theory of mathematical machines. 5590: ★Problems in the theory of mathematical machines. Collection II.
- Proc. Colloq. Modal and Many-Valued Logics (Helsinki, 1962). 1076: Proceedings of a Colloquium on Modal and Many-Valued Logics, Helsinki, 23-26 August, 1962.
- Proc. Fifth Canad. Math. Congr. 1975: ★Proceedings of the Fifth Canadian Mathematical Congress, University of Montreal, 1961.
- Proc. 1st Internat. Congr. Internat. Federation Automatic Control. 4969: ★Proceedings of the First International Congress of the International Federation on Automatic Control.
- Proc. Fourth Canad. Math. Congr. 1974: ★Proceedings of the Fourth Canadian Mathematical Congress, Banff, 1957.
- Proc. Internat. Congr. Math., 1962. 1: ★Proceedings of the International Congress of Mathematicians.
- Proc. Internat. Sympos. Non-linear Vibrations, 1961. 3185a: ★Proceedings of the International Symposium on Non-linear Vibrations. Vol. II: Qualitative methods in the theory of non-linear vibrations. 3185b: ★Proceedings of the International Symposium on Non-linear Vibrations. Vol. III: Applications of the methods of non-linear vibrations to the problems of physics and technology.
- Progress in Applied Mechanics. 1081: ★Progress in Applied Mechanics.
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- Recent advances in mathematical programming. 1005: ★Recent advances in mathematical programming.
- Séminaire Albert Châtelet et Paul Dubreil. 1095: ★Séminaire Albert Châtelet et Paul Dubreil, 1ère année: 1947/48. Algèbre et théorie des nombres. 1096: ★Séminaire Albert Châtelet et Paul Dubreil, 2ième-3ième années: 1948/50. Algèbre et théorie des nombres. 1097: ★Séminaire Albert Châtelet et Paul Dubreil, 4ième année: 1950/51. Algèbre et théorie des nombres. 1098: ★Séminaire Albert Châtelet et Paul Dubreil, 5ième-6ième années: 1951/53. Algèbre et théorie des nombres.
- Séminaire Bourbaki. 1082: ★Séminaire Bourbaki, 1ère année: 1948/49. Textes des Conférences, Exposés 1 à 16. 1083: ★Séminaire Bourbaki, 2ième année: 1949/50. Textes des Conférences, Exposés 17 à 32. 1084: ★Séminaire Bourbaki, 3ième année: 1950/51. Textes des Conférences, Exposés 33 à 49. 1085: ★Séminaire Bourbaki, 4ième année: 1951/52. Textes des Conférences, Exposés 50 à 67. 1086: ★Séminaire Bourbaki, 5ième année: 1952/53. Textes des Conférences, Exposés 68 à 83. 1087: ★Séminaire Bourbaki, 6ième année: 1953/54. Textes des Conférences, Exposés 84 à 100. 1088: ★Séminaire Bourbaki, 7ième année: 1954/55.
- Textes des Conférences, Exposés 101 à 119. 1089: ★Séminaire Bourbaki, 8ième année: 1955/56. Textes des Conférences, Exposés 120 à 136. 1090: ★Séminaire Bourbaki, 9ième année: 1956/57. Textes des Conférences, Exposés 137 à 151. 1091: ★Séminaire Bourbaki, 11ième année: 1958/59. Textes des Conférences, Exposés 169 à 186.
- Séminaire C. Chevalley. 1094: ★Séminaire C. Chevalley, 3ième année: 1958/59. Variétés de Picard.
- Séminaire de mécanique analytique et de mécanique céleste. 1099: ★Séminaire de mécanique analytique et de mécanique céleste, dirigé par Maurice Janet, 3ième année: 1959/60.
- Séminaire Delange-Pisot. 4981: ★Séminaire Delange-Pisot, 3ième année: 1961/62. Théorie des nombres.
- Séminaire Henri Cartan. 1092: ★Séminaire Henri Cartan, 12ième année: 1959/60. Périodicité des groupes d'homotopie stables des groupes classiques, d'après Bott. 2953: ★Séminaire Henri Cartan, 14ième année: 1961/62. Topologie différentielle. 2954: ★Séminaire Henri Cartan, 15ième année: 1962/63. Topologie différentielle.
- Séminaire P. Dubreil, M.-L. Dubreil-Jacotin et C. Pisot. 3011: ★Séminaire P. Dubreil, M.-L. Dubreil-Jacotin et C. Pisot, 14ième année: 1960/61. Algèbre et théorie des nombres. Fasc. 1, 2. 3012: ★Séminaire P. Dubreil, M.-L. Dubreil-Jacotin et C. Pisot, 15ième année: 1961/62. Algèbre et théorie des nombres. Fasc. 1, 2.
- Séminaire Schwartz, 5ième année: 1960/61. 1093: ★Séminaire Schwartz, 5ième année: 1960/61. Équations aux dérivées partielles et interpolation.
- Stollow, Simion. 1114: Simion Stollow.
- Survey of applied mathematics. 1799: ★A survey of applied mathematics.
- Tables. 1671: ★Tables for testing significance in a 2×2 contingency table. 1672: ★Tables of the cumulative binomial probability distribution for small values of p . 2969: ★Tables of powers of integers. 2258: ★Tables of the incomplete gamma function. 2904: ★A collection of tables and nomograms for the processing of observations made on artificial earth satellites.
- Tables of the mathematical functions. 1325a: ★Tables of the mathematical functions. Vol. I. 1325b: ★Tables of the mathematical functions. Vol. II.
- Theory of continuous systems. 4969: ★Proceedings of the First International Congress of the International Federation on Automatic Control.
- The theory of superconductivity. 1920: ★The theory of superconductivity.
- Topologie et géométrie différentielle. 1627: ★Topologie et géométrie différentielle.
- Training in industrial statistics in Norway during 1958-1960. 4605: Training in industrial statistics in Norway during 1958-1960.
- Trans. Third Prague Conf. Information Theory, Statist. Decision Functions, Random Processes (Liblice, 1962). 3910: ★Transactions of the Third Prague Conference on Information Theory, Statistical Decision Functions, Random Processes.
- Unpublished scientific papers of Isaac Newton. 2034: ★Unpublished scientific papers of Isaac Newton: A selection from the Portsmouth Collection in the University Library, Cambridge.

SUBJECT CLASSIFICATION

This is a list of headings, with code numbers, under which articles were classified during 1984. The headings in capital letters are essentially identical with those appearing in the 1984 monthly issues.

00. GENERAL

- 00 General mathematics
- 04 Collections of papers
- 20 Bibliographies
- 30 Dictionaries and other reference works
- 40 Reports of meetings
- 50 Methodology and philosophy of mathematics
- Philosophy of science, general

01. HISTORY AND BIOGRAPHY

- 05 Ancient
- 10 India, Far East, Maya, etc.
- 15 Medieval and Renaissance
- 20 17th century
- 25 18th century
- 30 19th century
- 35 20th century
- 40 Contemporary
- 50 Biographies, obituaries, personalia
- 60 Collected or selected works; reprintings or translations of classics
- 70 Source books

02. LOGIC AND FOUNDATIONS

- 15 Formalizing verbal reasoning
- 20 Syntax, semantics, deducibility
- 30 Propositional calculus: two-valued
- 32 Logical calculus: first-order, two-valued (functional calculus)
- 40 Logistic, axiomatic set theory, paradoxes
- 50 Many-valued logic, modal logic
- 60 Recursive function theory, Turing computability
- 70 Intuitionism
- 75 Axioms for mathematical systems
- 80 Metatheorems for mathematical systems
- 90 Undecidability, unsolvability in mathematical systems
- 95 Abstract automata theory (see also 94.90)

04. SET THEORY

- 15 Point sets
- 20 Relations
- 30 Transfinite numbers
- 35 Problem of the continuum
- 60 Combinatorial (partitions, etc.)

05. COMBINATORIAL ANALYSIS

- 10 Partitioning, subsets, etc.
- 20 Matrices, magic squares, block designs, configurations
- 30 Factorials, binomial coefficients, polynomials, power series
- 40 Graphs
- 50 Enumeration of graphs

06. ORDER, LATTICES

- 10 Total order
- 20 Partial order
- 30 Lattices
- 40 Modular lattices, continuous geometries
- 50 Distributive lattices
- 60 Boolean algebras and rings
- 70 Boolean algebras with operators

08. GENERAL MATHEMATICAL SYSTEMS

10. THEORY OF NUMBERS

- 005 Tables
- 01 Elementary
- 05 Power residues and reciprocity laws, primitive roots, indicoes; general binomial congruences
- 10 Diophantine equations
- 20 Diophantine approximation
- 25 Continued fractions and other expansions
- 28 Irrationality, transcendence
- 30 Forms
- 40 Geometry of numbers
- 50 Exponential and power sums
- 54 Turán's method
- 55 Modular and automorphic functions, forms, and groups
- 60 Multiplicative asymptotic theory
- 62 Zeta-function and other Dirichlet series
- 64 Character sums, asymptotic theory
- 65 Distribution of primes
- 70 Additive asymptotic theory
- 75 Sequences of integers (additive bases, density theorems, etc.)
- 80 Probabilistic number theory
- 82 Distribution mod 1
- 85 Arithmetic of hypercomplex numbers
- 90 Algebraic number theory
- 95 Class field theory
- 96 Algebraic function fields
- 97 p -adic fields
- 98 Finite fields

12. FIELDS AND POLYNOMIALS

- 20 Finite fields
- 30 Polynomials
- 40 Galois theory
- 50 Algebraic number fields
- 60 Algebraic function fields
- 70 Valuations, topological fields
- 80 Differential and difference algebra

14. ABSTRACT ALGEBRAIC GEOMETRY (for classical algebraic geometry, see 50.00)

- 10 Theories of equivalence
- 15 Transformations and correspondences
- 20 Curves
- 35 Algebraic properties of function fields
- 40 Arithmetical properties of varieties
- 45 Algebraic geometry over special fields or over rings; rationality questions
- 50 Group varieties, abstract analytic groups
- 52 Abstract derivations and differentials
- 55 Sheaf-theoretic and homological methods
- 60 Birational invariants, genera, etc.

15. LINEAR ALGEBRA

- 05 Vector spaces
- 15 Linear inequalities
- 20 Inequalities involving eigenvalues and eigenvectors
- 25 Miscellaneous inequalities involving matrices
- 30 Eigenvalues and eigenvectors
- 33 Canonical forms, reductions
- 36 Linear sets of linear transformations
- 38 Matrix equations and identities
- 39 Invariants

SUBJECT CLASSIFICATION

- 40 Multilinear algebra
- 48 Determinants
- 49 Permanents
- 50 Linear equations, matrix inversion
- 16. ASSOCIATIVE RINGS AND ALGEBRAS
 - 10 Ideal theory
 - 15 Commutative ideal theory
 - 20 General commutative theory
 - 24 Polynomials
 - 26 Formal power series
 - 28 Local rings
 - 30 Division rings, simple rings and algebras
 - 35 Structure of rings
 - 40 Radical theory
 - 45 Rings with chain condition
 - 50 Linear representations of rings and algebras (including orders)
 - 50 Modules
 - 70 Galois theory
 - 80 Ordered rings
 - 90 Topological rings
 - 95 Semi-rings, etc.
- 17. NON-ASSOCIATIVE RINGS AND ALGEBRAS
- 18. HOMOLOGICAL ALGEBRA
- 20. GROUP THEORY AND GENERALIZATIONS
 - 10 Free groups, relations
 - 14 General products of groups
 - 18 Group extensions
 - 20 Permutation groups
 - 25 Finite groups (including finite abelian)
 - 28 Burnside problem, conditions for finiteness
 - 30 Abelian groups, general theory
 - 40 Nilpotent, solvable, p -groups
 - 45 Groups with local properties
 - 50 Lattices of subgroups
 - 55 Special subgroups
 - 60 Crystallographic and discrete geometric groups
 - 65 Modular groups, discrete subgroups of classical groups
 - 70 Classical groups
 - 75 Linear groups, general
 - 80 Representations, characters, group algebras
 - 85 Representations of symmetric groups
 - 88 Automorphisms and endomorphisms, groups with operators
 - 90 Ordered groups, ordered semigroups
 - 92 Semigroups
 - 94 Groupoids
 - 96 Quasigroups
 - 98 Loops
- 22. TOPOLOGICAL GROUPS AND LIE THEORY
 - 10 Topological groups
 - 12 Haar measures
 - 15 Topological algebras
 - 40 Transformation groups
 - 50 Lie groups
 - 55 Classical groups
 - 60 Representations and analysis
 - 70 Homogeneous spaces (topology, differential geometry)
 - 80 Lie algebras
 - 90 Abstract Lie theory
 - 95 Infinite Lie groups
 - 99 Lie theory of differential equations
- 26. FUNCTIONS OF REAL VARIABLES
 - 10 Foundations: limits and generalizations [elementary topology of the line (or plane) if used for real variables]
 - 20 Calculus: elementary, advanced, etc.
- 21 Elementary functions
- 30 Continuity and related questions (modulus of continuity [if not used in boundary behaviour of analytic functions], discontinuities, etc.)
- 40 Differentiation: general theory
- 41 Non-differentiability (non-differentiable functions, points of non-differentiability), discontinuous derivatives
- 43 Generalized derivatives, derivatives of fractional order
- 47 Mean-value theorems
- 50 Monotonic functions, general
- 51 Functions of bounded variation; absolute continuity
- 52 Convexity; generalizations
- 53 Generalized monotonic functions
- 55 Several variables, implicit function theorems, Jacobians. Transformations with several variables
- 56 Length, area, volume
- 60 Polynomials
- 70 Inequalities (of a general and miscellaneous character)
- 80 Real-analytic functions
- 81 Quasi-analytic classes of real functions, functions of class C^∞
- 85 Superposition of functions
- 28. MEASURE AND INTEGRATION
 - 10 Measurable sets, general: Borel fields, non-measurable sets
 - 12 Analytic and Suslin sets
 - 13 Finitely additive set functions, measures; generalizations
 - 15 Special and generalized measures, Carathéodory theory of measure
 - 17 Transfinite diameter and capacity. Hausdorff measures and capacities
 - 20 Measurable and non-measurable functions
 - 25 Integration, general
 - 26 Riemann integral, Lebesgue integral, Denjoy integral, etc.
 - 30 Measure-preserving transformations
 - 31 Invariant measures
 - 32 Ergodic theorems
 - 33 Dynamical systems
 - 40 Length, area, volume
 - 41 Other geometric measure theory
- 30. FUNCTIONS OF A COMPLEX VARIABLE
 - 01 General questions, foundations
 - 02 Monogenic properties of complex functions (also polygenic and areolar monogenic functions)
 - 09 Inequalities in the complex domain
 - 10 Polynomials
 - 11 Zeros of polynomials
 - 20 Power series
 - 21 Behavior on the boundary of convergence. Overconvergence
 - 24 Dirichlet series
 - 25 Continued fractions
 - 28 Analytic continuation
 - 30 Sequences and series of analytic functions; uniform convergence, normal families, normal functions
 - 35 Integration; integral representations; Cauchy integral, Poisson and Poisson-Stieltjes integrals
 - 36 Moment problems; interpolation problem
 - 40 Conformal mapping, general theory
 - 41 Capacity, harmonic measure
 - 42 Univalent and p -valent functions
 - 43 Coefficient problems
 - 45 Riemann surfaces, uniformization
 - 46 Algebraic functions, Abelian integrals
 - 47 Quasiconformal mapping
 - 49 Automorphic functions and modular functions
 - 50 Maximum principle. Schwarz's lemma, Phragmén-Lindelöf theorems
 - 52 Extremal problems in complex domain
 - 55 Entire functions
 - 60 Meromorphic functions, general theory

SUBJECT CLASSIFICATION

- 61 Distribution of values, Picard-type theorems, Nevanlinna theory, defect (deficiency) theory
 - 62 Theory of cluster sets, prime ends, boundary behavior
 - 65 Bounded functions, positive real part, Blaschke products
 - 66 Bounded mean modulus, bounded characteristic
 - 67 H_p classes and other restrictions
 - 70 Approximation by polynomials and rational functions, Faber polynomials
 - 75 Boundary-value problems, Dirichlet problem
 - 77 Special boundary-value problems; Riemann-Hilbert problem. Inverse boundary problems
 - 79 Algebroidal functions
 - 80 Topological function theory, functions topologically equivalent to analytic mappings
 - 81 Generalized analytic mappings. Pseudo-analytic functions of Bers, Vekua, etc.
 - 83 Functions of hypercomplex variables and generalized variables
 - 85 Spaces of analytic functions
 - 86 Kernel function and applications
 - 87 Algebras of analytic functions
31. POTENTIAL THEORY
- 10 Harmonic functions in the plane
 - 11 Harmonic functions, general
 - 15 Subharmonic, superharmonic functions
 - 20 Boundary-value problems, Dirichlet problem
 - 21 Capacity and harmonic measure
 - 22 Generalized capacity and potential
 - 30 Biharmonic and polyharmonic functions and equations
 - 35 Poisson's equation
32. SEVERAL COMPLEX VARIABLES
- 02 Foundations, general questions
 - 10 Multiple power series, formal theory
 - 15 Analytic and meromorphic curves
 - 20 Holomorphic mappings, domains of holomorphy, analytic spaces (see also 57.00)
 - 25 Automorphic functions
 - 30 Approximation theorems
33. SPECIAL FUNCTIONS
- 04 Number-theoretic functions, special sequences
 - 05 Tables of special functions
 - 10 Exponential and trigonometric functions
 - 15 Gamma and Beta functions
 - 17 Error function, probability integral
 - 19 Elliptic functions and integrals
 - 20 Hypergeometric functions
 - 21 F -functions
 - 25 Cylindrical functions; Bessel functions
 - 27 Spherical functions; Legendre polynomials and functions, spherical harmonics, ultraspherical polynomials
 - 28 Lamé, Mathieu, spheroidal wave functions
 - 30 Wave functions
 - 32 Gegenbauer functions
 - 40 Orthogonal polynomials, general (Chebyshev, Hermite, Jacobi, Laguerre polynomials and functions)
34. ORDINARY DIFFERENTIAL EQUATIONS
- 02 Solutions in closed form; integration by quadratures; reduction of differential equations
 - 03 Operational calculus
 - 04 General existence and uniqueness theorems, Picard approximations and generalizations
 - 07 Continuous dependence of solution on parameter
 - 10 Analytic theory
 - 20 Linear equations and systems, general coefficients
 - 21 Linear equations with constant coefficients
 - 22 Linear equations with periodic and almost periodic coefficients
 - 30 Boundary-value problems, linear equations
 - 31 Sturm-Liouville theory
 - 32 Eigenvalues, eigenfunctions
 - 33 Eigenfunction expansions
 - 34 Asymptotic properties of eigenfunctions
 - 36 Boundary-value problems, non-linear
 - 40 Qualitative theory of first- and second-order equations and systems; singular points and limit cycles
 - 41 Periodic and almost periodic solutions
 - 42 Non-linear oscillations
 - 43 Stability of first- and second-order equations and systems
 - 50 Qualitative theory of equations and systems of order greater than 2; asymptotic behavior of solutions
 - 51 Stability; periodic and almost periodic solutions
 - 53 Perturbations
 - 54 Singular perturbations; small parameter with highest derivative
 - 60 Stochastic differential equations
 - 65 Dynamical systems, systems on manifolds
 - 70 Equations and systems of infinite order
 - 75 Difference-differential equations
 - 76 Solution by finite differences
 - 80 Differential equations in Banach and other spaces
 - 85 Optimal control problems
35. PARTIAL DIFFERENTIAL EQUATIONS
- 05 General properties of solutions, Cauchy-Kowalewski theorems, etc.
 - 10 First-order equations and systems
 - 12 Classification of equations and systems
 - 13 Exact equations and integrable systems. Pfaffian equations
 - 15 Characteristics
 - 20 Separation of variables, elementary properties of the equations of mathematical physics
 - 30 Elliptic equations and systems of first and second order
 - 31 Strongly elliptic systems
 - 32 Quasi-linear elliptic equations and systems
 - 33 Schrödinger equation, wave equation
 - 34 Maxwell's equations, Helmholtz equation
 - 35 Spectral analysis, eigenfunctions, operators
 - 36 Elliptic systems and equations of higher order
 - 37 Biharmonic equation
 - 40 Hyperbolic equations and systems of second order
 - 41 Quasi-linear hyperbolic systems and equations of second order
 - 45 Hyperbolic equations and systems of higher order
 - Parabolic equations of second order
 - 55 Equations of mixed type and second order
 - Mixed type, order higher than two
 - Non-linear equations and systems
 - 62 Approximation of solutions
 - Solution by finite differences
 - 65 Special equations: Navier-Stokes, etc.
 - 70 Asymptotic properties
 - 75 Infinite systems, equations of infinite order
 - Equations in Banach spaces and other spaces
39. FINITE DIFFERENCES AND FUNCTIONAL EQUATIONS
- 10 Finite differences, general
 - 12 Solution of ordinary differential equations by finite differences
 - 13 Solution of partial differential equations by finite differences
 - 20 Difference equations
 - 30 Functional equations
40. SEQUENCES, SERIES, SUMMABILITY
- 10 Series and sequences of numbers, general
 - 11 Infinite products
 - 12 Continued fractions
 - 13 Convergence
 - 15 Multiple series and sequences
 - 20 Sequences and series of functions, convergence
 - 30 Summability, general methods
 - 31 Summability, matrix methods
 - 32 Cesàro summability

- 33 Abel, Poisson summability
- 35 Summability of double series
- 40 Convergence and summability of integrals
- 42 Tauberian theorems
- 41. APPROXIMATIONS AND EXPANSIONS
 - 10 Interpolation
 - 15 Polynomial approximation
 - 17 Approximation by rational functions
 - 20 Approximate quadratures
 - 40 Rate of convergence, degree of approximation, best approximation
 - 41 Constructive theory of functions
 - 45 Approximation by smoothing integrals
 - 50 Asymptotic approximations
 - 55 Other methods of approximation
- 42. FOURIER ANALYSIS
 - 05 Trigonometric polynomials
 - 06 Best approximation by trigonometric polynomials
 - 08 Trigonometric interpolation
 - 10 Fourier coefficients
 - 11 Convergence of Fourier series
 - 15 Orthogonal functions
 - 16 Expansions in orthogonal functions
 - 17 Completeness of sets of orthogonal functions
 - 18 Completeness, closure, spectral synthesis
 - 20 Summability of Fourier and generalized Fourier expansions
 - 25 Fourier transform
 - 26 Other Fourier-type transforms
 - 27 Trigonometric moment problems
 - 30 Almost periodic functions
 - 35 Positive definite functions
 - 40 Multiple Fourier series and integrals
 - 50 Abstract harmonic analysis
- 44. INTEGRAL TRANSFORMS, OPERATIONAL CALCULUS
 - 10 Laplace transform
 - 25 Convolution
 - 28 General transforms
 - 30 Special transforms: Legendre, Hilbert, etc.
 - 32 Multiple transforms
 - 40 Operational calculus
 - 42 Operational calculus in several variables
 - 50 Fractional derivatives and integrals
 - 60 Moment problems
- 45. INTEGRAL EQUATIONS
 - 10 Linear integral equations, general
 - 11 Fredholm equations
 - 12 Eigenvalue problems
 - 13 Volterra equations
 - 15 Singular equations
 - 20 Systems of linear equations
 - 30 Non-linear integral equations
 - 31 Singular non-linear equations
 - 40 Integro-differential equations
- 46. FUNCTIONAL ANALYSIS
 - 10 Topological linear spaces (including normed spaces and Hilbert spaces)
 - 20 Partially ordered linear spaces
 - 30 Special function spaces
 - 40 Distributions
 - 50 Single linear operators in linear or partially ordered spaces
 - 60 Groups or semigroups of linear operators, representations of topological groups
 - 65 Rings of operators, group algebras, abstract topological algebras, and their representations
 - 70 Banach algebras of analytic functions
 - 80 Differential and integral operators
 - 90 Applications of functional analysis
- 49. CALCULUS OF VARIATIONS
- 50. GEOMETRY
 - 05 Foundations
 - 10 Euclidean
 - 11 Triangles, tetrahedra
 - 12 Circles, spheres
 - 14 Constructions
 - 15 Descriptive geometry
 - 17 Analytic geometry
 - 20 Affine geometry, general
 - 25 Transformations
 - 30 Projective geometry, general
 - 35 Transformations
 - 38 Second-order loci
 - 40 Non-Euclidean geometry (i.e., hyperbolic or elliptic)
 - 46 Minkowski geometry
 - 48 Special geometries
 - 50 Classical algebraic geometry
 - 51 Foundations
 - 52 Transformations
 - 55 Curves
 - 56 Surfaces
 - 57 Abelian varieties, genera, integrals
 - 60 Finite geometries
 - 70 Projective planes
 - 80 Configurations
 - 90 Regular figures, divisions of space
 - 95 Paradoxical decompositions
- 52. CONVEX SETS AND GEOMETRIC INEQUALITIES
 - 10 Convex polyhedra
 - 25 Convex curves
 - 30 Convex regions
 - 34 Helly-type theorems
 - 40 Extremum problems and geometric inequalities
 - 45 Packing and covering
 - 50 Distance geometries
- 53. DIFFERENTIAL GEOMETRY
 - 01 Curves and surfaces in Euclidean spaces
 - 04 Minimal surfaces
 - 10 Affine differential geometry
 - 20 Projective differential geometry
 - 25 Conformal differential geometry
 - 30 Non-Euclidean differential geometry
 - 32 Other special differential geometries
 - 35 Vector and tensor analysis
 - 38 Spinor analysis
 - 40 Differentiable manifolds (general theory), e.g., definitions, jets, tangent bundles
 - 42 Differential invariants (local theory), geometric objects
 - 45 Differential calculus (global theory); forms, currents, integration, tensor fields, etc.
 - 50 Connections (general theory), including G -structures
 - 55 Affine connections
 - 60 Projective connections
 - 65 Conformal connections
 - 70 Local Riemannian geometry
 - 72 Riemannian manifolds
 - 75 Global surface theory (convex surfaces)
 - 78 Lorentz metrics and generalizations
 - 80 Kählerian connections and generalizations
 - 85 Finsler spaces and generalizations (areal metrics)
 - 90 Integral geometry
 - 99 Other generalizations (G -spaces of Busemann, etc.)
- 54. GENERAL TOPOLOGY
 - 10 Axiomatics; generalizations of topological spaces
 - 20 General topological spaces
 - 21 Convergence notions

SUBJECT CLASSIFICATION

- 22 Compactness and generalizations
- 23 Compactifications, other extensions
- 24 Proximity spaces
- 25 Uniform spaces
- 26 Metric spaces, metrizable
- 27 Dimension theory
- 28 Mappings
- 29 Many-valued mappings
- 30 Continua
- 35 Topological semigroups, lattices, etc.
- 40 Topology of E_n , 2-manifolds
- 50 Topology of E_n , n -manifolds ($n > 2$)
- 60 Transformation groups
- 70 Topological dynamics
- 80 Fixed-point theorems, coincidence theorems, etc.

- 55. ALGEBRAIC TOPOLOGY
 - 10 Graphs, map-coloring
 - 20 Knots, links
 - 30 Homology and cohomology theory
 - 32 Sheaves
 - 34 Cohomology (and homology) operations, Steenrod algebra
 - 36 Periodic transformations, fixed points, coincidences (Smith theory)
 - 38 Dimension theory
 - 40 Homotopy theory, general
 - 42 Algebra of mappings (including cohomotopy groups)
 - 45 Computation of homotopy groups
 - 50 Fiber spaces
 - 52 Spectral sequences
 - 60 Manifolds
 - 62 Classification
 - 64 Mappings
 - 66 Generalized manifolds, local homology
 - 68 Homotopy manifolds
 - 70 Imbedding, immersion

- 57. TOPOLOGY AND GEOMETRY OF DIFFERENTIABLE MANIFOLDS
 - 10 Differentiable structures, cobordism
 - 20 Differentiable mappings, imbeddings, immersions, diffeomorphisms
 - 30 Fiber bundles, tangent bundles
 - 32 Characteristic classes
 - 34 Topology of vector and tensor fields
 - 36 Foliations
 - 40 Topology of Lie groups
 - 45 Topology of homogeneous spaces
 - 50 Analysis on differentiable manifolds
 - 60 Complex manifolds (also in several complex variables)
 - 70 Infinite Lie groups, deformations

- 60. PROBABILITY
 - 05 Foundations
 - 10 Combinatorial probability theory
 - 15 Geometric probability theory
 - 20 Distributions
 - 30 Limit theorems
 - 40 Stochastic processes, general theory
 - 45 Markov processes
 - 48 Branching processes
 - 50 Stationary processes
 - 55 Random walks, Brownian motion
 - 60 Queueing theory, telephone traffic, storage
 - 62 Renewal theory
 - 65 Other special processes
 - 70 Random noise
 - 90 Other applications

- 62. STATISTICS
 - 05 Elementary descriptive statistics
 - 10 Distributions of statistical functions
 - 20 Estimation theory: parametric case
 - 25 Testing of hypotheses: parametric case
 - 30 Multivariate analysis, regression analysis
 - 35 Order statistics
 - 40 Non-parametric methods
 - 50 Analysis of experiments
 - 55 Design of experiments
 - 60 Decision theory
 - 65 Multistage decision procedures, sequential analysis
 - 70 Statistical engineering, quality control
 - 75 Life testing
 - 80 Sampling surveys
 - 85 Statistical analysis of stochastic processes, time series analysis
 - 90 Applications

- 65. NUMERICAL METHODS
 - 05 General mathematical methods, iteration, tables
 - 15 Monte Carlo methods
 - 20 Interpolation, smoothing, least squares, curve fitting, approximation of functions
 - 25 Computation of special functions, series, integrals
 - 30 Mathematical programming
 - 35 Linear equations, determinants, matrices
 - 40 Eigenvalues, eigenvectors, Rayleigh-Ritz method
 - 50 Solution of algebraic and transcendental equations and systems
 - 55 Numerical differentiation and integration, mechanical quadrature
 - 60 Ordinary differential equations
 - 65 Partial differential equations
 - 70 Difference and functional equations
 - 75 Integral and integro-differential equations
 - 80 Error analysis
 - 85 Graphical methods, nomography
 - 90 Harmonic analysis and synthesis

- 68. COMPUTING MACHINES

- 69. GENERAL APPLIED MATHEMATICS

- 70. MECHANICS OF PARTICLES AND SYSTEMS
 - 10 Foundations
 - 20 Statics
 - 30 Kinematics, mechanisms, linkages
 - 40 Dynamics
 - 50 Oscillations, stability
 - 55 Non-linear oscillation
 - 60 Exterior ballistics
 - 70 Variable mass, rockets

- 73. ELASTICITY, PLASTICITY
 - 05 Foundations of mechanics of deformable solids
 - 06 Elasticity: general theorems
 - 07 Finite deformation
 - 10 Plane stress and strain
 - 15 Three-dimensional problems
 - 25 Beams and rods
 - 30 Plates
 - 32 Shells and membranes
 - 35 Anisotropic bodies
 - 37 Dislocation theory
 - 45 Vibrations, structural dynamics
 - 47 Aeroelasticity
 - 50 Stability, buckling, failure
 - 55 Wave propagation, impact
 - 65 Visco-elasticity
 - 70 Plasticity, creep
 - 80 Soil mechanics
 - 90 Thermo-mechanics

SUBJECT CLASSIFICATION

76. FLUID MECHANICS, ACOUSTICS

- 05 Foundations
- 10 Incompressible fluids: general theory
- 15 Incompressible fluids with special boundaries
- 17 Airfoil theory
- 20 Free surface flows, water waves, jets, wakes
- 25 Viscous fluids
- 30 Boundary layer theory
- 35 Stability of flow
- 37 Convection
- 40 Turbulence
- 45 Rarefied gas flow
- 50 Compressible fluids: general theory
- 55 Compressible fluids: subsonic flow
- 60 Compressible fluids: transonic flow
- 65 Compressible fluids: supersonic and hypersonic flow
- 70 Shock waves
- 75 Aero- and hydrodynamic sound
- 80 Acoustics
- 85 Non-Newtonian fluids
- 90 Magnetohydro- and aerodynamics, ionized gas flow (see also 78.30 ; 82.25 ; 85.50)
- 92 Quantum hydrodynamics
- 93 Relativistic hydrodynamics
- 95 Diffusion, filtration

78. OPTICS, ELECTROMAGNETIC THEORY, CIRCUITS

- 05 Geometric optics
- 10 Physical optics
- 20 Electron optics
- 30 Space charge waves
- 40 Electromagnetic theory
- 45 Electro- and magnetostatics
- 50 Waves and radiation
- 60 Diffraction, scattering
- 70 Antennas, wave-guides
- 80 Circuits, networks (for switching theory, see 94.70)
- 90 Technical applications

80. CLASSICAL THERMODYNAMICS, HEAT TRANSFER

- 10 Classical thermodynamics
- 20 Heat and mass transfer
- 30 Combustion, interior ballistics
- 40 Chemical kinetics

81. QUANTUM MECHANICS

- 10 General theory
- 15 Scattering theory
- 20 Mathematical field theory
- 22 Dispersion relations
- 24 Weak interactions
- 26 Elementary particles
- 28 Nuclear physics
- 30 Atomic physics
- 38 Molecular physics
- 50 Quantum mechanics of many-body systems
- 60 Superconductivity and superfluidity
- 70 Quantum statistical mechanics

82. STATISTICAL PHYSICS, STRUCTURE OF MATTER

- 05 General statistical mechanics
- 10 Quantum statistical mechanics
- 15 Statistical thermodynamics
- 17 Irreversible thermodynamics
- 20 Kinetic theory of gases
- 25 Plasma (see also 76.90)
- 30 Liquids
- 40 Solids
- 45 Crystals
- 50 Metals

60 Transport processes

65 Nuclear reactor theory

83. RELATIVITY

- 10 Special relativity
- 20 General relativity
- 30 Unified field theories
- 40 Other relativistic theories

85. ASTRONOMY

- 10 Celestial mechanics
- 15 Galactic and stellar dynamics
- 20 3- and n-body problems
- 27 Astronautics
- 30 Stellar structure
- 40 Stellar atmospheres, radiative transfer
- 50 Hydrodynamic and hydromagnetic problems
- 60 Statistical astronomy
- 70 Cosmology
- 80 Special problems
- 90 Radio astronomy

86. GEOPHYSICS

- 10 Hydrology, hydrography, oceanography
- 20 Meteorology
- 30 Seismology
- 40 Potentials, prospecting
- 50 Geo-electricity and magnetism
- 60 Geodesy, mapping problems
- 70 Atmospheric physics

90. ECONOMICS, OPERATIONS RESEARCH, GAMES

- 05 Decisions, utility
- 10 Economic models
- 15 Economic time-series analysis
- 17 Miscellaneous applications to economics
- 30 Management science, operations research
- 35 Highway traffic
- 40 Actuarial theory
- 50 Linear programming
- 52 Transportation problems
- 54 Flows in networks
- 56 Integer programming
- 58 Non-linear programming
- 60 Logistics, inventory, storage
- 70 Games

92. BIOLOGY AND BEHAVIORAL SCIENCES

- 10 Biology
- 20 Genetics
- 30 Population dynamics, epidemiology
- 40 Sociology
- 50 Psychology
- 55 Nervous networks

94. INFORMATION, COMMUNICATION, CONTROL

- 05 Foundations, coding theorem
- 10 Statistical theory of communication channels, filters
- 13 Detection
- 15 Codes, decoding
- 20 Data processing
- 30 Linguistics, machine translation
- 55 Control systems
- 57 Stability of control systems
- 60 Optimal control
- 65 Random control
- 70 Switching theory, relays
- 80 Servomechanisms
- 90 Automata (see also 02.95)

ABBREVIATIONS OF NAMES OF JOURNALS

This list gives the form of references used in MATHEMATICAL REVIEWS and the complete title; the place of publication and other pertinent information are given in parentheses when desirable for clarity.

- Abh. Akad. Wiss. Göttingen Math.-Phys. Kl.* Abhandlungen der Akademie der Wissenschaften in Göttingen. Mathematisch-Physikalische Klasse. (Göttingen)
- Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* Abhandlungen der Deutschen Akademie der Wissenschaften zu Berlin. Klasse für Mathematik, Physik und Technik. (Berlin)
- Abh. Dokumentationszentrums Technik Wirtschaft.* Abhandlungen des Dokumentationszentrums der Technik und Wirtschaft. (Vienna)
- Abh. Math. Sem. Univ. Hamburg.* Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg. (Hamburg)
- Abh. Sächs. Akad. Wiss. Leipzig Math.-Natur. Kl.* Abhandlungen der Sächsischen Akademie der Wissenschaften zu Leipzig. Mathematisch-Naturwissenschaftliche Klasse. (Leipzig)
- Acad. R. P. Romîne An. Romîno-Soviet. Ser. Mat.-Fiz.* Academia Republicii Populare Romîne. Institutul de Studii Romîno-Sovietice. Analele Romîno-Sovietice. Seria Matematică-Fizică. Rumyno-Sovetskije Zapiski. Fiziko-Matematitseskaja Serija. (Bucharest)
- Acad. R. P. Romîne Baza Cerc. Ști. Timișoara Stud. Cerc. Ști. Tehn.* Academia Republicii Populare Romîne. Baza de Cercetări Științifice Timișoara. Studii și Cercetări Științe Tehnice. (Timișoara)
- Acad. R. P. Romîne Fil. Cluj Stud. Cerc. Mat.* Academia Republicii Populare Romîne. Institutul de Calcul. Filiala Cluj. Studii și Cercetări de Matematică. (Cluj)
- Acad. R. P. Romîne Fil. Iași Stud. Cerc. Ști. Fiz. Ști. Tehn.* Academia Republicii Populare Romîne. Filiala Iași. Studii și Cercetări Științifice. Fizică și Științe Tehnice. (Iași)
- Acad. R. P. Romîne Fil. Iași Stud. Cerc. Ști. Mat.* Academia Republicii Populare Romîne. Filiala Iași. Studii și Cercetări Științifice. Matematică. (Iași)
- Acad. R. P. Romîne Stud. Cerc. Mat.* Academia Republicii Populare Romîne. Institutul de Matematică. Studii și Cercetări Matematico-Matematitseskije Trudy i Issledovaniia. Études et Recherches Mathématiques. (Bucharest)
- Acad. R. P. Romîne Stud. Cerc. Mec. Apl.* Academia Republicii Populare Romîne. Institutul de Mecanică Aplicată "Traian Vuia". Studii și Cercetări de Mecanică Aplicată. (Bucharest)
- Acad. Roy. Belg. Bull. Cl. Sci.* Académie Royale de Belgique. Bulletin de la Classe des Sciences. Koninklijke Belgische Academie. Mededelingen van de Klasse der Wetenschappen. (Brussels)
- Acad. Roy. Belg. Cl. Sci. Mém. Coll. in-8°.* Académie Royale de Belgique. Classe des Sciences. Mémoires. Collection in-8°. Koninklijke Belgische Academie. Klasse der Wetenschappen. Verhandelingen. Verzameling in-8°. (Brussels)
- Acad. Serbe Sci. Arts Glas Cl. Sci. Math. Natur.* Académie Serbe des Sciences et des Arts. Glas. Classe des Sciences Mathématiques et Naturelles. Nouvelle Série. (Belgrade)
- Accad. Naz. Sci. Lett. Arti Modena Atti Mem.* Accademia Nazionale di Scienze Lettere e Arti. Modena. Atti e Memorie. (Modena)
- Acta Acad. Abo. Math. Phys.* Acta Academiae Aboensis. Mathematica et Physica. (Åbo=Turku)
- Acta Arith.* Polska Akademia Nauk. Instytut Matematyczny. Acta Arithmetica. (Warsaw)
- Acta Astronom. Sinica.* Acta Astronomica Sinica. (Peking)
- Acta Cryst.* Acta Crystallographica. (Copenhagen)
- Acta Fac. Natur. Univ. Comenian.* Acta Facultatis Rerum Naturalium Universitatis Comenianae. (Bratislava)
- Acta Math.* Acta Mathematica. (Uppsala)
- Acta Math. Acad. Sci. Hungar.* Acta Mathematica Academiae Scientiarum Hungaricae. (Budapest)
- Acta Math. Sinica.* Acta Mathematica Sinica. (Peking) (Translated as: Chinese Math.)
- Acta Mech. Sinica.* Acta Mechanica Sinica. (Peking)
- Acta Philos. Fenn.* Acta Philosophica Fennica. (Helsinki)
- Acta Phys. Acad. Sci. Hungar.* Acta Physica Academiae Scientiarum Hungaricae. (Budapest)
- Acta Phys. Austriaca.* Acta Physica Austriaca. (Vienna)
- Acta Phys. Polon.* Polska Akademia Nauk. Instytut Fizyki. Acta Physica Polonica. (Warsaw)
- Acta Polytech. Scand. Math. and Comput. Mach. Ser.* Acta Polytechnica Scandinavica. Mathematics and Computing Machinery Series. (Stockholm) (Formerly: Acta Polytech. Scandinav.)
- Acta Polytech. Scandinav.* Acta Polytechnica Scandinavica. (Stockholm) (Continued as: Acta Polytech. Scand. Math. and Comput. Mach. Ser.)
- Acta Salmant. Ci.* Acta Salmanticensia. Ciencias. Nueva Serie. (Salamanca)
- Acta Sci. Math. (Szeged).* Acta Universitatis Szegediensis. Acta Scientiarum Mathematicarum. (Szeged)
- Acta Tech. Acad. Sci. Hungar.* Acta Technica Academiae Scientiarum Hungaricae. (Budapest)
- Acta Univ. Debrecen.* Acta Universitatis Debreceniensis de Ludovico Kossuth Nominatae. (Debrecen)
- Acta Univ. Lund. Sect. II.* Acta Universitatis Lundensis. Sectio II. Medica, Mathematica, Scientiae rerum naturalium. (Lund) (Formerly: Lunds Univ. Årsskr. Avd. 2)
- Actes Soc. Helv. Sci. Natur.* Actes de la Société Helvétique des Sciences Naturelles. Verhandlungen der Schweizerischen Naturforschenden Gesellschaft. Atti della Società Elvetica di Scienze Naturali. (Basel)
- Actualités Sci. Indust.* Actualités Scientifiques et Industrielles. (Paris)
- Acustica.* Acustica. (Zürich)
- Advances in Math.* Advances in Mathematics. (New York)
- Advances in Phys.* Advances in Physics. A Quarterly Supplement of the Philosophical Magazine. (London)
- Aero. Quart.* The Aeronautical Quarterly. (London)
- AIAA J.* AIAA Journal. (Easton, Pa.)
- Akad. Nauk Armjan. SSR Dokl.* Akademija Nauk Armjanskoi SSR. Doklady. (Erevan)
- Akad. Nauk Azerbaidžan. SSR Dokl.* Akademija Nauk Azerbaidžanskoi SSR. Doklady. (Baku)
- Akad. Nauk Azerbaidžan. SSR Trudy Inst. Mat. Meh.* Akademija Nauk Azerbaidžanskoi SSR. Trudy Instituta Matematiki i Mehaniiki. (Baku)
- Akad. Nauk Gruzin. SSR Trudy Tbilis. Mat. Inst. Razmadze.* Akademija Nauk Gruzinskoi SSR. Trudy Tbilisskogo Matematitseskogo Instituta im. A. M. Razmadze. (Tiflis)
- Akad. Nauk Kazah. SSR Trudy Astrofiz. Inst.* Akademija Nauk Kazahskoi SSR. Trudy Astrofizitseskogo Instituta. (Alma-Ata)

ABBREVIATIONS OF NAMES OF JOURNALS

- Akad. Nauk Kazah. SSR Trudy Sekt. Mat. Meh.* Akademija Nauk Kazahakol SSR. Trudy Sektora Matematiki i Mehaniki. (Alma-Ata)
- Akad. Nauk Latv. SSR Trudy Inst. Fiz.* Akademija Nauk Latvialol SSR. Trudy Instituta Fiziki. (Riga)
- Akad. Nauk SSSR Izv. Sibirsk. Otd.* Akademija Nauk SSSR. Izvestija Sibirskogo Otdelenija Akademii Nauk SSSR. (Novosibirsk) (Continued as: *Izv. Sibirsk. Otd. Akad. Nauk SSSR Ser. Tehn. Nauk*)
- Akad. Nauk Uzbek. SSR Trudy Inst. Mat.* Akademija Nauk Uzbekakol SSR. Trudy Instituta Matematiki im. V. I. Romanovskogo. (Tashkent)
- Akad. Wiss. Lit. Mainz Abh. Math.-Natur. Kl.* Akademie der Wissenschaften und der Literatur in Mainz. Abhandlungen der Mathematisch-Naturwissenschaftlichen Klasse. (Wiesbaden)
- Akust. Beihefte.* Akustische Beihefte. (Stuttgart)
- Akust. Ž.* Akademija Nauk SSSR. Akustičeskij Žurnal. (Moscow) (Translated as: *Soviet Physics Acoust.*)
- Algebra i Logika Sem.* Akademija Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. Algebra i Logika. Seminar. (Novosibirsk)
- Algorytmy.* Algorytmy. Prace. Instytutu Maszyn Matematycznych. Polakioj Akademii Nauk. (Warsaw)
- Allgemein. Statist. Arch.* Allgemeines statistisches Archiv. Organ der Deutschen Statistischen Gesellschaft. (Munich)
- Amer. J. Math.* American Journal of Mathematics. (Baltimore, Md.)
- Amer. J. Phys.* American Journal of Physics. (New York)
- Amer. Math. Monthly.* The American Mathematical Monthly. (Buffalo, N.Y.)
- Amer. Math. Soc. Notices.* American Mathematical Society Notices. (Providence, R.I.) (Continued as: *Notices Amer. Math. Soc.*)
- Amer. Math. Soc. Transl.* American Mathematical Society Translations. (Providence, R.I.)
- AME.* Applied Mechanics Reviews. (New York)
- An. Acad. Brasil. Ci.* Anais da Academia Brasileira de Ciencias. (Rio de Janeiro)
- An. Inst. Mat. Univ. Nac. Autónoma México.* Anales del Instituto de Matemáticas. Universidad Nacional Autónoma de México. (Mexico City)
- An. Soc. Ci. Argentina.* Anales de la Sociedad Científica Argentina. (Buenos Aires)
- An. Ști. Univ. "Al. I. Cuza" Iași Sec. I.* Analele Științifice ale Universității "Al. I. Cuza" din Iași. (Seria Nouă). Secțiunea I. (Matematică, Fizică, Chimie). (Iași)
- An. Univ. București Ser. Acta Logica.* Analele Universității București. Seria Acta Logica. (Bucharest)
- An. Univ. București Ser. Ști. Natur. Mat.-Fiz.* Analele Universității București. Seria Științele Naturii. Matematică-Fizică. (Bucharest) (Formerly: *Ann. Univ. C. I. Parhon Ser. Ști. Natur. Mat.-Fiz.*)
- An. Univ. C. I. Parhon Ser. Ști. Natur. Mat.-Fiz.* Analele Universității C. I. Parhon. Seria Științele Naturii. Matematică-Fizică. (Bucharest) (Continued as: *An. Univ. București Ser. Ști. Natur. Mat.-Fiz.*)
- Ann. Acad. Sci. Fenn. Ser. A I.* Suomalaisen Tiedekatemian Toimituksia. Sarja A. Annales Academiae Scientiarum Fennicae. Series A. I. Mathematica. (Helsinki)
- Ann. Acad. Sci. Fenn. Ser. A VI.* Suomalaisen Tiedekatemian Toimituksia. Sarja A. Annales Academiae Scientiarum Fennicae. Series A. VI. Physica. (Helsinki)
- Ann. Assoc. Internat. Calcul Anal.* Annales de l'Association Internationale pour le Calcul Analogique. Proceedings of the International Association for Analog Computation. (Brussels)
- Ann. Astrophys.* Annales d'Astrophysique. (Paris)
- Ann. Fac. Sci. Univ. Toulouse.* Annales de la Faculté des Sciences de l'Université de Toulouse pour les Sciences Mathématiques et les Sciences Physiques. (Toulouse)
- Ann. Geofis.* Annali di Geofisica. Rivista dell'Istituto Nazionale di Geofisica. (Rome)
- Ann. Inst. Fourier (Grenoble).* Université de Grenoble. Annales de l'Institut Fourier. (Grenoble)
- Ann. Inst. H. Poincaré.* Annales de l'Institut Henri Poincaré. (Paris)
- Ann. Inst. Statist. Math.* Annals of the Institute of Statistical Mathematics. (Tokyo)
- Ann. Japan Assoc. Philos. Sci.* Annals of the Japan Association for Philosophy of Science. (Tokyo)
- Ann. Mat. Pura Appl.* Annali di Matematica Pura ed Applicata. (Bologna)
- Ann. Math. Statist.* The Annals of Mathematical Statistics. (Baltimore, Md.)
- Ann. New York Acad. Sci.* Annals of the New York Academy of Sciences. (New York)
- Ann. of Math.* Annals of Mathematics. (Princeton, N.J.)
- Ann. of Sci.* Annals of Science. (London)
- Ann. Physics.* Annals of Physics. (New York)
- Ann. Physik.* Annalen der Physik. (Leipzig)
- Ann. Physique.* Annales de Physique. (Paris)
- Ann. Polon. Math.* Polska Akademia Nauk. Annales Polonici Mathematici. (Warsaw)
- Ann. Ponts Chaussées.* Annales de Ponts et Chaussées. (Paris)
- Ann. Radioléc.* Annales de Radioélectricité. (Paris)
- Ann. Sci. École Norm. Sup.* Annales Scientifiques de l'École Normale Supérieure. (Paris)
- Ann. Scuola Norm. Sup. Pisa.* Annali della Scuola Normale Superiore di Pisa. Scienze Fisiche e Matematiche. (Pisa)
- Ann. Soc. Sci. Bruxelles Sér. I.* Annales de la Société Scientifique de Bruxelles. Série I. Sciences Mathématiques, Astronomiques et Physiques. (Brussels)
- Ann. Télécommun.* Annales des Télécommunications. (Paris)
- Ann. Univ. Lyon Sect. A.* Annales de l'Université de Lyon. Section A. Sciences Mathématiques et Astronomie. (Lyon)
- Ann. Univ. Lyon Sect. B.* Annales de l'Université de Lyon. Section B. Sciences Physiques et Chimiques. (Lyon)
- Ann. Univ. Mariae Curie-Skłodowska Sect. A.* Annales Universitatis Mariae Curie-Skłodowska. Section A. Mathematica. (Lublin)
- Ann. Univ. Mariae Curie-Skłodowska Sect. AA.* Annales Universitatis Mariae Curie-Skłodowska. Section AA. Physics and Chemistry. (Lublin)
- Ann. Univ. Sarav.* Annales Universitatis Saraviensis. (Saarbrücken) (Continued as: *Ann. Univ. Sarav. Math.-Natur. Fak.*)
- Ann. Univ. Sarav. Math.-Natur. Fak.* Annales Universitatis Saraviensis. Mathematisch-Naturwissenschaftliche Fakultät. (Berlin) (Formerly: *Ann. Univ. Sarav.*)
- Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* Annales Universitatis Scientiarum Budapestinensis de Rolando Eötvös Nominatae. Sectio Mathematica. (Budapest)
- Ann. Univ. Turku Ser. A I.* Annales Universitatis Turkuensis. Series A. I. Astronomica-Chemica-Physica-Mathematica. (Turku)
- Annuaire Acad. Roy. Belg.* Annuaire de l'Académie Royale de Belgique. Jaarboek van de Koninklijke Belgische Akademie. (Brussels)
- Annuaire Univ. Sofia Fac. Sci. Phys. Math. Livre 1 Math.* Godišnik na Sofijskija Universitet Fiziko-Matematički Fakultet. Kniga 1—Matematika. Annuaire de l'Université de Sofia. Faculté des Sciences Physiques et Mathématiques. Livre 1—Mathématiques. (Sofia)

ABBREVIATIONS OF NAMES OF JOURNALS

- Annuaire Univ. Sofia Fac. Sci. Phys. Math. Livre 2 Phys.* Godišnik na Sofijskija Universitet Fiziko-Matematičeski Fakultet. Kniga 2—Fizika. Annuaire de l'Université de Sofia. Faculté des Sciences Physiques et Mathématiques. Livre 2—Physique. (Sofia)
- Anuário Obs. São Paulo.* Universidade de São Paulo. Instituto Astronômico e Geofísico. Anuário do Observatório de S. Paulo. (São Paulo)
- Appl. Mat.* Československá Akademie Věd. Aplikace Matematiky. (Prague)
- Appl. Mech. Rev.* Applied Mechanics Reviews. (New York) (Sometimes abbreviated as *AMR* in the text of *Math. Reviews*)
- Appl. Statist.* Applied Statistics. A Journal of the Royal Statistical Society. (London)
- Arbok Univ. Bergen Mat.-Natur. Ser.* Arbok for Universitetet i Bergen. Mat.-Naturv. Serie. (Bergen)
- Arch. Elektrotech.* Archiv für Elektrotechnik. (Berlin-Göttingen-Heidelberg)
- Arch. History Exact Sci.* Archive for History of Exact Sciences. (Berlin)
- Arch. Math.* Archiv der Mathematik. Archives of Mathematics. Archives Mathématiques. (Basel-Stuttgart)
- Arch. Math. Logik Grundlagenforsch.* Archiv für mathematische Logik und Grundlagenforschung. (Stuttgart)
- Arch. Mech. Stos.* Polska Akademia Nauk. Instytut Podstawowych Problemów Techniki. Archiwum Mechaniki Stosowanej. (Warsaw)
- Arch. Rational Mech. Anal.* Archive for Rational Mechanics and Analysis. (Berlin)
- Arch. Sci. Soc. Phys. Histoire Natur. Genève.* Archives des Sciences. Société de Physique et d'Histoire Naturelle de Genève. (Geneva)
- Archimede.* Archimede. Rivista per gli Insegnanti e i Cultori di Matematiche Pure e Applicate. (Florence)
- Ark. Astronom.* Arkiv för Astronomi. (Stockholm)
- Ark. Fys.* Arkiv för Fysik. (Stockholm)
- Ark. Mat.* Arkiv för Matematik. (Stockholm)
- Arkhimedes.* Arkhimedes. Suomen Fyysikkoseura—Finlands Fysikerförening r.y. Suomen Matemaattinen Yhdistys—Finlands Matematiska Förening r.y. (Helsinki)
- Arquivo Inst. Gulbenkian Ci. Sec. A Estud. Mat. Fis.-Mat.* Arquivo do Instituto Gulbenkian de Ciência. Secção A. Estudos Matemáticos e Físico-Matemáticos. (Lisbon)
- Assoc. Roy. Actuaire. Belges Bull.* Association Royale des Actuaire Belges. Bulletin. (Brussels)
- Astronaut. Acta.* Astronautica Acta. (Vienna)
- Astronom. J.* The Astronomical Journal. (New Haven, Conn.)
- Astronom. Jber.* Astronomischer Jahresbericht. (Berlin)
- Astronom. Nachr.* Astronomische Nachrichten. (Berlin)
- Astronom. Ž.* Akademija Nauk Sojuza SSR. Astronomičeskij Žurnal. (Moscow) (Translated as: *Soviet Astronom. AJ*)
- Astrophys. J.* The Astrophysical Journal. (Chicago, Ill.)
- Astrophys. Norvegica.* Det Norske Videnskaps-Akademi i Oslo. Astrophysical Norvegica. (Oslo)
- Atatürk Üniv. Yayınları Ser.-Mat.* Atatürk Üniversitesi Yayınları. Araştırmalar Serisi—Matematik. Publications of Atatürk University. Research Series—Mathematics. (Erzurum)
- Atti Accad. Gioenia Catania.* Atti della Accademia Gioenia di Scienze Naturali in Catania. (Catania)
- Atti Accad. Ligure.* Atti della Accademia Ligure di Scienze e Lettere. (Genoa)
- Atti Accad. Naz. Lincei Mem. Cl. Sci. Fis. Mat. Natur. Sez. I.* Atti della Accademia Nazionale dei Lincei. Memorie. Classe di Scienze Fisiche, Matematiche e Naturali. Sezione I. (Matematica, Meccanica, Astronomia, Geodesia e Geofisica). (Rome)
- Atti Accad. Naz. Lincei Mem. Cl. Sci. Fis. Mat. Natur. Sez. II.* Atti della Accademia Nazionale dei Lincei. Memorie. Classe di Scienze Fisiche, Matematiche e Naturali. Sezione II. (Fisica, Chimica, Geologia, Paleontologia e Mineralogia). (Rome)
- Atti Accad. Naz. Lincei Rend. Adunanze Solenni.* Atti della Accademia Nazionale dei Lincei. Rendiconti delle Adunanze Solenni. (Rome)
- Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* Atti della Accademia Nazionale dei Lincei. Rendiconti. Classe di Scienze Fisiche, Matematiche e Naturali. (Rome)
- Atti Accad. Sci. Fis. Mat. Napoli.* Atti dell'Accademia delle Scienze Fisiche e Matematiche di Napoli. (Naples)
- Atti Accad. Sci. Ist. Bologna Cl. Sci. Fis. Mem.* Atti della Accademia delle Scienze dell'Istituto di Bologna. Classe di Scienze Fisiche. Memorie. (Bologna)
- Atti Accad. Sci. Ist. Bologna Cl. Sci. Fis. Rend.* Atti della Accademia delle Scienze dell'Istituto di Bologna. Classe di Scienze Fisiche. Rendiconti. (Bologna)
- Atti Accad. Sci. Lett. Arti Palermo Parte I.* Atti della Accademia di Scienze Lettere e Arti di Palermo. Parte Prima: Scienze. (Palermo)
- Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* Atti della Accademia delle Scienze di Torino. Classe di Scienze Fisiche, Matematiche e Naturali. (Turin)
- Atti Sem. Mat. Fis. Univ. Modena.* Atti del Seminario Matematico e Fisico dell'Università di Modena. (Modena)
- Austral. J. Appl. Sci.* Australian Journal of Applied Science. (Melbourne)
- Austral. J. Phys.* Australian Journal of Physics. (Melbourne)
- Austral. J. Sci.* The Australian Journal of Science. (Sydney)
- Austral. J. Statist.* The Australian Journal of Statistics. (Sydney)
- Avh. Norske Vid.-Akad. Oslo I.* Avhandlingar Utgitt av det Norske Videnskaps-Akademi i Oslo. I. Mat.-Naturv. Klasse. (Oslo)
- Automat. i Telemekh.* Akademija Nauk Sojuza SSR. Avtomatika i Telemekhanika. (Moscow) (Translated as: *Automat. Remote Control*)
- Avtomatika.* Akademija Nauk Ukraïna'koï RSR. Institut Elektrotehniki. Avtomatika. (Kiev)
- Azerbaidžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. i Him. Nauk.* Azerbaidžanskij Gosudarstvenij Universitet im. S. M. Kirova. Učenyje Zapiski. Serija Fiziko-Matematičeskij i Himičeskij Nauk. (Baku)
- Bayer. Akad. Wiss. Math.-Natur. Kl. Abh.* Bayerische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Abhandlungen. (Munich)
- Bayer. Akad. Wiss. Math.-Natur. Kl. S.-B.* Bayerische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Sitzungsberichte. (Munich)
- Behavioral Sci.* Behavioral Science. (Baltimore, Md.-Ann Arbor, Mich.)
- Bell System Tech. J.* The Bell System Technical Journal. (New York)
- Biometrics.* Biometrics. Journal of the Biometric Society. (Blackburg, Va.)
- Biometrika.* Biometrika. (London)
- BIT = Nordisk Tidekr. Informations-Behandling.*
- Bjull. Inst. Teoret. Astronom.* Akademija Nauk Sojuza Sovetskijh Socialističeskijh Respublik. Bjulleten' Instituta Teoretičeskoi Astro-nomii. (Moscow)
- Bol. Fac. Ingen. Agrimens. Montevideo.* Boletín de la Facultad de Ingeniería y Agrimensura de Montevideo. (Montevideo)

ABBREVIATIONS OF NAMES OF JOURNALS

- Bol. Soc. Mat. Mexicana.* Boletín de la Sociedad Matemática Mexicana. (Mexico, D.F.)
- Bol. Soc. Mat. São Paulo.* Boletim da Sociedade de Matemática de São Paulo. (São Paulo)
- Bol. Univ. Paraná Fis. Teórica.* Boletim da Universidade do Paraná. Conselho de Pesquisas. Instituto de Física. Física Teórica. (Curitiba)
- Boll. Un. Mat. Ital.* Bollettino della Unione Matematica Italiana. (Bologna)
- Bonn. Math. Schr.* Bonner Mathematische Schriften. (Bonn)
- British J. Philos. Sci.* The British Journal for the Philosophy of Science. (Edinburgh)
- Bul. Inst. Politehn. București.* Buletinul Institutului Politehnic București. (Bucharest)
- Bul. Inst. Politehn. Iasi.* Buletinul Institutului Politehnic din Iasi. Serie Nouă. (Iasi)
- Bul. Ști. Inst. Politehn. Cluj.* Buletinul Științific al Institutului Politehnic din Cluj. (Cluj)
- Bulgar. Akad. Nauk. Izv. Mat. Inst.* Bългарска Академия на Науките. Оtdelenie за Fiziko-Matematičeski i Tehničeski Nauki. Izvestija na Matematičeskija Institut. (Sofia)
- Bulgar. Akad. Nauk. Otd. Fiz.-Mat. Nauk. Izv. Fiz. Inst. s Aneb.* Bългарска Академия на Науките. Оtdelenie za Fiziko-Matematičeski Nauki. Izvestija na Fizičeskija Institut s Aneb. (Sofia)
- Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* Bulletin de l'Académie Polonaise des Sciences. Série des Sciences Mathématiques, Astronomiques et Physiques. (Warsaw)
- Bull. Acad. Serbe Sci. Arts Cl. Sci. Math. Natur. Sci. Math.* Bulletin de l'Académie Serbe des Sciences et des Arts. Classe des Sciences Mathématiques et Naturelles Sciences. Mathématiques. (Belgrade) (Formerly: *Bull. Acad. Serbe Sci. Cl. Sci. Math. Nat. Sci. Math.*)
- Bull. Acad. Serbe Sci. Cl. Sci. Math. Natur. Sci. Math.* Bulletin de l'Académie Serbe des Sciences. Classe des Sciences Mathématiques et Naturelles Sciences. Mathématiques. (Belgrade) (Continued as: *Bull. Acad. Serbe Sci. Arts. Cl. Sci. Math. Natur. Sci. Math.*)
- Bull. Amer. Math. Soc.* Bulletin of the American Mathematical Society. (Providence, R.I.)
- Bull. Astronom.* Bulletin Astronomique. (Paris)
- Bull. Astronom. Inst. Netherlands.* Bulletin of the Astronomical Institutes of the Netherlands. (Haarlem)
- Bull. Calcutta Math. Soc.* Bulletin of the Calcutta Mathematical Society. (Calcutta)
- Bull. Colls Sci. (Baghdad).* Bulletin of the College of Science. (Baghdad)
- Bull. Earthquake Res. Inst. Tokyo.* Bulletin of the Earthquake Research Institute, University of Tokyo. (Tokyo) See *Bull. Earthquake Res. Inst. Univ. Tokyo.*
- Bull. Earthquake Res. Inst. Univ. Tokyo.* Bulletin of the Earthquake Research Institute, University of Tokyo. (Tokyo) (Formerly listed as: *Bull. Earthquake Res. Inst. Tokyo*)
- Bull. Fukuoka Gakugei Univ. III.* Bulletin of Fukuoka Gakugei University. III. Natural Sciences. (Fukuoka)
- Bull. Géodésique.* Bulletin Géodésique. (Paris)
- Bull. Inst. Internat. Statist.* Bulletin de l'Institut International de Statistique. (The Hague)
- Bull. (Izv.) Acad. Sci. USSR Geophys. Ser.* Bulletin (Izvestiya) Academy of Sciences, USSR. Geophysics Series. (Washington, D.C.) (Translation of *Izv. Akad. Nauk SSSR Ser. Geofiz.*)
- Bull. JSME.* Bulletin of JSME. (Japan Society of Mechanical Engineers). (Tokyo)
- Bull. Kyoto Gakugei Univ. Ser. B.* Bulletin of the Kyoto Gakugei University. Ser. B. Mathematics and Natural Science. (Kyoto)
- Bull. Kyushu Inst. Tech. Math. Natur. Sci.* Bulletin of the Kyushu Institute of Technology. Mathematics, Natural Science. (Tobata)
- Bull. Math. Biophys.* The Bulletin of Mathematical Biophysics. (Chicago, Ill.)
- Bull. Math. Soc. Nanyang Univ.* Majallah Tahunan 'Ilmu Pasti. Bulletin of Mathematical Society. Nanyang University. (Singapore)
- Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine.* Bulletin Mathématique de la Société des Sciences Mathématiques et Physiques de la République Populaire Roumaine. (Bucharest)
- Bull. Math. Statist.* Bulletin of Mathematical Statistics. (Fukuoka)
- Bull. Res. Council Israel Sect. F.* Bulletin of the Research Council of Israel. Section F. Mathematics and Physics. (Jerusalem) (Continued as: *Israel J. Math.*)
- Bull. Sci. Conseil Acad. RSF Yougoslav.* Bulletin Scientifique. Conseil des Académies de la RSF de Yougoslavie. (Zagreb)
- Bull. Sci. Math.* Bulletin des Sciences Mathématiques. (Paris)
- Bull. Signal. l Math. Pures Appl.* Ministère de l'Éducation Nationale. Centre National de la Recherche Scientifique. Bulletin Signalétique. 1. Mathématiques Pures et Appliquées. (Paris)
- Bull. Soc. Amis Sci. Lettres Poznań Sér. B.* Bulletin de la Société des Amis des Sciences et des Lettres de Poznań. Série B: Sciences Mathématiques et Naturelles. (Poznań)
- Bull. Soc. Math. Belg.* Bulletin de la Société Mathématique de Belgique. (Brussels)
- Bull. Soc. Math. France.* Bulletin de la Société Mathématique de France. (Paris)
- Bull. Soc. Math. Grèce.* Bulletin de la Société Mathématique de Grèce. (Athens)
- Bull. Soc. Math. Phys. Macédoine.* Bulletin de la Société des Mathématiciens et des Physiciens de la République Populaire de Macédoine. Bilten na Društvo na Matematikarite i Fizikarite od Narodna Republika Makedonija. (Skopje)
- Bull. Soc. Math. Phys. Serbie.* Bulletin de la Société des Mathématiciens et Physiciens de la R. P. de Serbie. Vesnik Društva Matematikara i Fizikara Narodno Republike Srbije. (Belgrade) (Continued as: *Mat. Vesnik*)
- Bull. Soc. Roy. Sci. Liège.* Bulletin de la Société Royale des Sciences de Liège. (Liège)
- Bull. Soc. Sci. Lettres Łódź.* Bulletin de la Société des Sciences et des Lettres de Łódź. (Łódź)
- Bull. Tokyo Gakugei Univ.* Bulletin of Tokyo Gakugei University. (Tokyo)
- Bull. Trimest. Inst. Actuaire Franc.* Bulletin Trimestriel de l'Institut des Actuaire Français. (Paris)
- Bull. Univ. Osaka Prefecture Ser. A.* Bulletin of University of Osaka Prefecture. Series A. Engineering and Natural Sciences. (Osaka)
- C. R. Acad. Bulgare Sci.* Doklady Bolgarskoj Akademii Nauk. Comptes Rendus de l'Académie Bulgare des Sciences. (Sofia)
- C. R. Acad. Sci. Paris.* Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences. (Paris)
- Cahiers Centre Études Rech. Opér.* Cahiers du Centre d'Études de Recherche Opérationnelle. (Brussels) See *Cahiers Centre Études Recherche Opér.*
- Cahiers Centre Études Recherche Opér.* Cahiers du Centre d'Études de Recherche Opérationnelle. (Brussels) (Formerly listed as: *Cahiers Centre Études Rech. Opér.*)
- Cahiers Centre Math. Statist. Appl. Sci. Social.* Cahiers du Centre de Mathématique et de Statistique Appliquées aux Sciences Sociales de l'Institut de Sociologie Solvay. (Brussels)

ABBREVIATIONS OF NAMES OF JOURNALS

- Cahiers de Phys.* Cahiers de Physique. (Paris)
- Cahiers Rhodan.* Cahiers Rhodaniens. (Lyon)
- Calc. Automat. y Cibernet.* Calculo Automatico y Cibernetica. (Madrid)
- Calcutta Statist. Assoc. Bull.* Calcutta Statistical Association Bulletin. (Calcutta)
- Canad. J. Math.* Canadian Journal of Mathematics. Journal Canadien de Mathématiques. (Toronto, Ont.)
- Canad. J. Phys.* Canadian Journal of Physics. (Ottawa, Ont.)
- Canad. Math. Bull.* Canadian Mathematical Bulletin. Bulletin Canadien de Mathématiques. (Toronto, Ont.)
- Časopis Pěst. Mat.* Československá Akademie Věd. Časopis pro Pěstování Matematiky. (Prague)
- Centaurus.* Centaurus. (Copenhagen)
- Chalmers Tekn. Högsk. Handl.* Chalmers Tekniska Högskolans Handlingar. Transactions of Chalmers University of Technology, Gothenburg, Sweden. (Gothenburg)
- Chinese Math.* Chinese Mathematics. Translation of Acta Mathematica Sinica. (Providence, R.I.) (Translation of Acta Math. Sinica)
- Ciência (Lisboa).* Ciência. Revista de Cultura Científica. (Lisbon)
- Ciencias (Madrid).* Las Ciencias. (Madrid)
- Collect. Math.* Consejo Superior de Investigaciones Científicas. Universidad de Barcelona. Collectanea Mathematica. (Barcelona)
- Colloq. Math.* Colloquium Mathematicum. (Warsaw)
- Com. Acad. R. P. Romîne.* Comunicările Academiei Republicii Populare Romîne. (Bucharest)
- Comm. ACM.* Communications of the Association for Computing Machinery. (New York)
- Comm. and Electronics.* Communication and Electronics. (New York) (Continued as: IEEE Trans. Comm. and Electronics)
- Comm. Dublin Inst. Adv. Studies Ser. A.* Communications of the Dublin Institute for Advanced Studies. Series A. (Dublin)
- Comm. Fac. Sci. Univ. Ankara Sér. A.* Communications de la Faculté des Sciences de l'Université d'Ankara. Série A. Mathématiques-Physique-Astronomie. (Ankara)
- Comm. Pure Appl. Math.* Communications on Pure and Applied Mathematics. (New York)
- Comment. Math. Helv.* Commentarii Mathematici Helvetici. (Zürich)
- Comment. Math. Univ. Carolinae.* Commentationes Mathematicae Universitatis Carolinae. (Prague)
- Comment. Math. Univ. St. Paul.* Commentarii Mathematici Universitatis Sancti Pauli. Rikkyō Daigaku Sūgaku Zasshi. (Tokyo)
- Compositio Math.* Compositio Mathematica. (Groningen)
- Comput. Bull.* The Computer Bulletin. (London)
- Comput. J.* The Computer Journal. (London)
- Comput. Rev.* Computing Reviews. (New York) (Usually abbreviated CR in the text of Math. Reviews)
- Confer. Sem. Mat. Univ. Bari.* Conference del Seminario di Matematica dell'Università di Bari. (Bari)
- Contributions to Differential Equations.* Contributions to Differential Equations. (New York)
- CORS J.* CORS J. The Canadian Operation Research Society Journal. (Toronto, Ont.)
- CR.* Computing Reviews. (New York)
- Cybernetica.* Cybernetica. (Namur)
- Czechoslovak J. Phys.* Československá Akademie Nauk. Československý Fyzikální Žurnal. Czechoslovak Academy of Sciences. Czechoslovak Journal of Physics. (Prague)
- Czechoslovak Math. J.* Československá Akademie Nauk. Československý Matematický Žurnal. Czechoslovak Mathematical Journal. (Prague)
- Deutsche Geodät. Kommis. Bayer. Akad. Wiss. Reihe B Angew. Geodäsie.* Deutsche Geodätische Kommission bei der Bayerischen Akademie der Wissenschaften. Reihe B. Angewandte Geodäsie. (Munich)
- Dialectica.* Dialectica. (Neuchâtel)
- Discussions Faraday Soc.* Discussions of the Faraday Society. (London)
- Discret. Analis.* Akademija Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. Diskretnyi Analiz. Sbornik Trudov. (Novosibirsk)
- Dokl. Akad. Nauk BSSR.* Doklady Akademii Nauk BSSR. (Minsk)
- Dokl. Akad. Nauk SSSR.* Doklady Akademii Nauk SSSR. (Moscow) (Mathematics section translated as: Soviet Math. Dokl.; Physics section translated as: Soviet Physics Dokl.)
- Dokl. Akad. Nauk Tadzhik. SSR.* Doklady Akademii Nauk Tadzhikskoi SSR. (Dushanbe)
- Dopovidi Akad. Nauk Ukrain. RSR.* Dopovidi Akademii Nauk Ukrain's'koj Radjans'koj Socialističnoi Respubliki. (Kiev)
- Duke Math. J.* Duke Mathematical Journal. (Durham, N.C.)
- Econometrica.* Econometrica. Journal of the Econometric Society. (Chicago, Ill.)
- Eesti NSV Tead. Akad. Toimetised Füüs.-Mat. Tehn. Tead. Ser.* Eesti NSV Teaduste Akadeemia Toimetised. Füüsika-Matemaatiliste ja Tehniliste Teaduste Seeria. Izvestija Akademii Nauk Estonakoi SSR. Serija Fiziko-Matematičeskikh i Tehničeskikh Nauk. (Tallin) (Continued as: Eesti NSV Tead. Akad. Toimetised Füüs.-Mat. Tehn.-tead. Ser.)
- Eesti NSV Tead. Akad. Toimetised Füüs.-Mat. Tehn.-tead. Ser.* Eesti NSV Teaduste Akadeemia Toimetised. Füüsika-Matemaatika ja Tehnikateaduste Seeria. Izvestija Akademii Nauk Estonakoi SSR. Serija Fiziko-Matematičeskikh i Tehničeskikh Nauk. (Tallin) (Formerly: Eesti NSV Tead. Akad. Toimetised Füüs.-Mat. Tehn. Tead. Ser.)
- Elektron. Datenverarbeitung.* Elektronische Datenverarbeitung. Fachberichte über programmgesteuerte Maschinen und ihre Anwendung. (Braunschweig)
- Elem. Math.* Elemente der Mathematik. Revue de Mathématiques Élémentaires. Rivista di Matematica Elementare. (Basel)
- English Abstracts Selected Articles Soviet Bloc and Mainland China Tech. J. Ser. I.* English Abstracts of Selected Articles from Soviet Bloc and Mainland China Technical Journals. Series I—Physics and Mathematics. (Washington, D.C.)
- Enseignement Math.* L'Enseignement Mathématique. (Geneva)
- Ericsson Technics.* Ericsson Technics. (Stockholm)
- Estadist. Española.* Estadística Española. (Madrid)
- Estadística.* Estadística. (Washington, D.C.)
- Euclides (Groningen).* Euclides. Tijdschrift voor de Didactiek der Exacte Wetten. (Groningen)
- Euclides (Madrid).* Euclides. Revista Mensual de Ciencias Exactas, Físicas, Químicas, Naturales y Aplicaciones Técnicas. (Madrid)
- Fac. Ingen. Agrimens. Montevideo Publ. Didact. Inst. Mat. Estadist.* Facultad de Ingeniería y Agrimensura. Montevideo. Publicaciones Didácticas del Instituto de Matemática y Estadística. (Montevideo)
- Fac. Sci. Univ. Skopje Annuaire.* Faculté des Sciences de l'Université de Skopje. Annuaire. (Skopje)
- Fibonacci Quart.* The Fibonacci Quarterly. Official Organ of the Fibonacci Association. A journal devoted to the study of integers with special properties. (St. Mary's College, Calif.)
- Fiz.-Mat. Spis. Bulgar. Akad. Nauk.* Bŭlgarska Akademija na Naukite Fizičeski Institut. Matematičeski Institut. Fiziko-Matematičesko Spisanie. (Sofia)

ABBREVIATIONS OF NAMES OF JOURNALS

- Fiz. Tverd. Tela. Fizika Tverdogo Tela.* (Moscow-Leningrad) (Translated as: *Soviet Physics Solid State*)
- Forsch. Gebiete Ingenieurwesen.* Forschung auf dem Gebiete des Ingenieurwesen. (Berlin)
- Fortschr. Physik.* Fortschritte der Physik. (Berlin)
- Fund. Math.* Polska Akademia Nauk. Fundamenta Mathematicae. (Warsaw)
- Funkcial. Ekvac.* Fakto de l'Funkcialaj Ekvacioj Japana Matematika Societo. Funkciaj Ekvacioj. (Socio Internacia). (Kobe)
- Gac. Mat. (Madrid).* Gaceta Matemática. (Madrid)
- Gapika.* Gapita. (Lucknow)
- Gaz. Mat. Fiz. Ser. A.* Societatea de Științe Matematice și Fizice din R. P. R. Gazeta Matematică și Fizică. Publicație Pentru Studiul și Răspindirea Științelor Matematice și Fizice. Seria A. (Bucharest)
- Gaz. Mat. (Lisboa).* Gazeta de Matemática. (Lisbon)
- Genet. Res.* Genetical Research. (New York)
- Geodet. Inst. Medd.* Geodetisk Institut. Meddelelse. (Copenhagen)
- Geofys. Publ. Norske Vid.-Akad. Oslo.* Geofysiske Publikasjoner Utgitt av det Norske Videnskaps-Akademi i Oslo. (Oslo)
- Giorn. Ist. Ital. Attuari.* Giornale dell'Istituto Italiano degli Attuari. (Rome)
- Giorn. Mat. Battaglini.* Giornale di Matematiche di Battaglini. (Naples)
- Glasnik Mat.-Fiz. Astronom. Društvo Mat. Fiz. Hrvatske Ser. II.* Glasnik Matematičko-Fizički i Astronomski. Periodicum Mathematico-Physicum et Astronomicum. Serija II. Društvo Matematičara i Fizičara Hrvatske. Societas Mathematicorum et Physicorum Croatiae. (Zagreb)
- Gruzín. Politehn. Inst. Trudy.* Gruzinskii Politehnicheskii Institut im. V. I. Lenina. Trudy. (Tiflis)
- Helv. Phys. Acta.* Helvetica Physica Acta. Societatis Physicæ Helveticae Commentaria Publica. (Basel)
- Hochfrequenztech. Elektroakust.* Hochfrequenztechnik und Elektroakustik. (Leipzig)
- Houille Blanche.* La Houille Blanche. Revue de l'Ingénieur Hydraulicien. (Grenoble)
- IBM J. Res. Develop.* IBM Journal of Research and Development. (New York)
- Icarus.* Icarus. International Journal of the Solar System. (New York)
- ICC Bull.* ICC Bulletin. (Rome)
- ICSU Rev. World Sci.* ICSU Review of World Science. (Amsterdam)
- IEEE Trans. Antennas and Propagation.* IEEE Transactions on Antennas and Propagation. (New York)
- IEEE Trans. Automatic Control.* IEEE Transactions on Automatic Control. (New York)
- IEEE Trans. Circuit Theory.* IEEE Transactions on Circuit Theory. (New York)
- IEEE Trans. Comm. and Electronics.* IEEE Transactions on Communication and Electronics. (New York) (Formerly: *Comm. and Electronics*)
- IEEE Trans. Comm. Systems.* IEEE Transactions on Communication Systems. (New York)
- IEEE Trans. Electronic Computers.* IEEE Transactions on Electronic Computers. (New York)
- IEEE Trans. Information Theory.* IEEE Transactions on Information Theory. (New York)
- IEEE Trans. Nuclear Science.* IEEE Transactions on Nuclear Science. (New York)
- IEEE Trans. Reliability.* IEEE Transactions on Reliability. (New York)
- IEEE Trans. Space Electronics and Telemetry.* IEEE Transactions on Space Electronics and Telemetry. (New York)
- Illinois J. Math.* Illinois Journal of Mathematics. (Urbana, Ill.)
- Indian J. Math.* Indian Journal of Mathematics. (Allahabad)
- Indian J. Mech. Math.* Indian Journal of Mechanics and Mathematics. (Calcutta)
- Indian J. Phys.* Indian Journal of Physics and Proceedings of the Indian Association for the Cultivation of Science. (Calcutta)
- Indian J. Theoret. Phys.* Indian Journal of Theoretical Physics. (Calcutta)
- Information and Control.* Information and Control. (New York)
- Information Processing in Japan.* Information Processing in Japan. (Tokyo)
- Information Storage and Retrieval.* Information Storage and Retrieval. (Oxford-New York)
- Ing.-Arch.* Ingenieur-Archiv. (Berlin-Göttingen-Heidelberg)
- Inst. Hautes Études Sci. Publ. Math.* Institut des Hautes Études Scientifiques. Publications Mathématiques. (Paris)
- Internat. J. Abstracts Statist. Theory Method.* International Journal of Abstracts. Statistical Theory and Method. (London) (Continued as: *Statist. Theory Method Abstracts*)
- Internat. J. Comput. Math.* International Journal of Computer Mathematics. (New York)
- Internat. J. Engrg. Sci.* International Journal of Engineering Science. (Oxford-New York)
- Internat. J. Mech. Sci.* International Journal of Mechanical Sciences. (Oxford)
- Internat. Math. Nachr.* Internationale Mathematische Nachrichten. (Vienna)
- Isk. Ž. Inženernyi Zhurnal.* Organ Otdeleniya Tehnicheskikh Nauk i Instituta Mehaniki Akademii Nauk SSSR. (Moscow)
- Isis.* Isis. An International Review Devoted to the History of Science and Civilization. (Cambridge, Mass.)
- Israel J. Math.* Israel Journal of Mathematics. (Jerusalem) (Formerly: *Bull. Res. Council Israel Sect. F*)
- Ist. Lombardo Accad. Sci. Lett. Rend. A.* Istituto Lombardo. Accademia di Scienze e Lettere. Rendiconti. Scienze Matematiche, Fisiche, Chimiche e Geologiche. A. (Milan)
- Ist. Lombardo Accad. Sci. Lett. Rend. Parte Gen. e Atti Uff.* Istituto Lombardo Accademia di Scienze e Lettere. Rendiconti. Parte Generale e Atti Ufficiali. (Milan) (Formerly: *Ist. Lombardo Sci. Lett. Rend. Parte Gen. e Atti Uff.*)
- Ist. Lombardo Sci. Lett. Rend. Parte Gen. e Atti Uff.* Istituto Lombardo di Scienze e Lettere. Rendiconti. Parte Generale e Atti Ufficiali. (Milan) (Continued as: *Ist. Lombardo Accad. Sci. Lett. Rend. Parte Gen. e Atti Uff.*)
- Ist. Veneto Sci. Lett. Arti Atti Cl. Sci. Mat. Natur.* Istituto Veneto de Scienze, Lettere ed Arti. Venezia. Atti. Classe de Scienze Matematiche e Naturali. (Venice)
- Istanbul Tek. Univ. Bul.* Istanbul Teknik Üniversitesi Bülteni. Bulletin of the Technical University of Istanbul. (Istanbul)
- Istanbul Univ. Fen Fak. Mec. Ser. A.* İstanbul Üniversitesi Fen Fakültesi Mecmuası. Seri A: Sırf ve Tatbiki Matematik. Revue de la Faculté des Sciences de l'Université d'Istanbul. Série A: Mathématiques Pures et Appliquées. (Istanbul)
- Istanbul Univ. Fen Fak. Mec. Ser. C.* İstanbul Üniversitesi Fen Fakültesi Mecmuası. Seri C: Astronomi-Fizik-Kimya. Revue de la Faculté des Sciences de l'Université d'Istanbul. Série C: Astronomie-Physique-Chimie. (Istanbul)

ABBREVIATIONS OF NAMES OF JOURNALS

- Istor.-Astronom. Issled.* Istoriko-Astronomičeskie Issledovanija. (Moscow)
- Istor.-Mat. Issled.* Istoriko-Matematičeskie Issledovanija. (Moscow-Leningrad)
- Istoriko-Mat. Zbirnik.* Akademija Nauk Ukraïna'koï RSR. Institut Matematiki. Istoriko-Matematičnii Zbirnik. (Kiev)
- Izv. Akad. Nauk Armjan. SSR Ser. Fiz.-Mat. Nauk.* Izvestija Akademii Nauk Armjanskoi SSR. Serija Fiziko-Matematičeskikh Nauk. (Erevan)
- Izv. Akad. Nauk Armjan. SSR Ser. Tehn. Nauk.* Izvestija Akademii Nauk Armjanskoi SSR. Serija Tehničeskikh Nauk. (Erevan)
- Izv. Akad. Nauk Azerbaidžan. SSR. Ser. Fiz.-Mat. Tehn. Nauk.* Izvestija Akademii Nauk Azerbaidžanskoi SSR. Serija Fiziko-Matematičeskikh i Tehničeskikh Nauk. (Baku)
- Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk.* Izvestija Akademii Nauk Kazahskoi SSR. Serija Fiziko-Matematičeskikh Nauk. (Alma-Ata)
- Izv. Akad. Nauk SSSR Ser. Fiz.* Izvestija Akademii Nauk SSSR. Serija Fizičeskaja. (Moscow)
- Izv. Akad. Nauk SSSR Ser. Geofiz.* Izvestija Akademii Nauk SSSR. Serija Geofizičeskaja. (Moscow) (Translated as: *Bull. (Izv.) Acad. Sci. USSR Geophys. Ser.*)
- Izv. Akad. Nauk SSSR Ser. Mat.* Izvestija Akademii Nauk SSSR. Serija Matematičeskaja. (Moscow)
- Izv. Akad. Nauk SSSR Ser. Tehn. Kibernet.* Izvestija Akademii Nauk SSSR. Tehničeskaja Kibernetika. (Moscow)
- Izv. Akad. Nauk Turkmen. SSR Ser. Fiz.-Tehn. Him. Geol. Nauk.* Izvestija Akademii Nauk Turkmenaskoi SSR. Serija Fiziko-Tehničeskikh, Himičeskikh i Geologičeskikh Nauk. (Ashkhabad)
- Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk.* Izvestija Akademii Nauk UzSSR. Serija Fiziko-Matematičeskikh Nauk. UzSSR Fanlar Akademijasining Ahboroti. Fizika-Matematika Fanlari Serijasi. (Tashkent)
- Izv. Kazan. Fil. Akad. Nauk SSSR Ser. Fiz.-Mat. i Tehn. Nauk.* Izvestija Kazanskogo Filiala Akademii Nauk SSSR. Serija Fiziko-Matematičeskikh i Tehničeskikh Nauk. (Kazan)
- Izv. Krymk. Ped. Inst.* Izvestija Krymskogo Pedagogičeskogo Instituta im. M. V. Frunze. (Simferopol)
- Izv. Sibirsk. Otd. Akad. Nauk SSSR Ser. Tehn. Nauk.* Izvestija Sibirskogo Otdelenija. Akademija Nauk SSSR. Serija Tehničeskikh Nauk. (Novosibirsk) (Formerly: *Akad. Nauk SSSR Izv. Sibirsk. Otd.*)
- Izv. Vuzov = Izv. Vyš. Učebn. Zaved. Matematika.*
- Izv. Vyš. Učebn. Zaved. Matematika.* Ministerstvo Vyšnego Obrazovanija SSSR. Izvestija Vyšših Učebnyh Zavedenii. Matematika. (Kazan)
- J. Acoust. Soc. Amer.* The Journal of the Acoustical Society of America. (New York)
- J. Algebra.* Journal of Algebra. (New York)
- J. Amer. Statist. Assoc.* Journal of the American Statistical Association. (Washington, D.C.)
- J. Analyse Math.* Journal d'Analyse Mathématique. (Jerusalem)
- J. Annamalai Univ. Part B Sci.* Journal of the Annamalai University. Part B. Sciences. (Annamalainagar)
- J. Appl. Math. Mech.* Journal of Applied Mathematics and Mechanics. (Translation of the Soviet journal *Prikladnaja Matematika i Mehanika*). (New York) (Translation of *Prikl. Mat. Meh.*)
- J. Appl. Phys.* Journal of Applied Physics. (New York)
- J. Appl. Probability.* Journal of Applied Probability. (East Lansing, Mich.)
- J. Assoc. Comput. Mach.* Journal of the Association for Computing Machinery. (New York)
- J. Atmospheric Sci.* Journal of the Atmospheric Sciences. (Boston, Mass.)
- J. Austral. Math. Soc.* The Journal of the Australian Mathematical Society. (Sydney)
- J. Chem. Phys.* The Journal of Chemical Physics. (New York)
- J. College Arts Sci. Chiba Univ.* Journal of the College of Arts and Sciences, Chiba University. (Chiba)
- J. Electronics Control.* Journal of Electronics and Control. (London)
- J. Fac. Sci. Hokkaido Univ. Ser. I.* Journal of the Faculty of Science. Hokkaido University. Series I. Mathematics. (Sapporo)
- J. Fac. Sci. Niigata Univ. Ser. I.* Journal of the Faculty of Science. Niigata University. Series I. Mathematics, Physics and Chemistry. (Niigata) (Continued as: *Sci. Rep. Niigata Univ. Ser. A*)
- J. Fac. Sci. Univ. Tokyo Sect. I.* Journal of the Faculty of Science. University of Tokyo. Section I. Mathematics, Astronomy, Physics, Chemistry. (Tokyo)
- J. Fluid Mech.* Journal of Fluid Mechanics. (London)
- J. Franklin Inst.* Journal of the Franklin Institute. (Philadelphia, Pa.)
- J. Gakugei Tokushima Univ.* Journal of the Gakugei College. Tokushima University. (Natural Science). (Tokushima)
- J. Geophys. Res.* Journal of Geophysical Research. (Washington, D.C.)
- J. Indian Inst. Sci.* Journal of the Indian Institute of Science. (Bangalore)
- J. Indian Math. Soc.* The Journal of the Indian Mathematical Society. (Madras)
- J. Indian Soc. Agric. Statist.* Journal of the Indian Society of Agricultural Statistics. (New Delhi)
- J. Indian Statist. Assoc.* Journal of the Indian Statistical Association. (Bombay)
- J. Information Processing Soc. Japan.* Journal of Information Processing Society of Japan. (Tokyo)
- J. Inst. Actuar.* Journal of the Institute of Actuaries. (London)
- J. Karnatak Univ.* Journal of the Karnatak University. (Dharwar) (Continued as: *J. Karnatak Univ. Sci.*)
- J. Karnatak Univ. Sci.* Journal of the Karnatak University. Science. (Dharwar) (Formerly: *J. Karnatak Univ.*)
- J. London Math. Soc.* The Journal of the London Mathematical Society. (London)
- J. Madras Univ. B.* Journal of the Madras University. B. Contributions in Mathematics, Physical and Biological Sciences. (Madras) (Formerly: *J. Madras Univ. Sect. B*)
- J. Madras Univ. Sect. B.* Journal of the Madras University. Section B. (Madras) (Continued as: *J. Madras Univ. B*)
- J. Math. Anal. Appl.* Journal of Mathematical Analysis and Applications. (New York)
- J. Math. and Phys.* Journal of Mathematics and Physics. (Cambridge, Mass.)
- J. Math. Kyoto Univ.* Journal of Mathematics of Kyoto University. (Kyoto)
- J. Math. Mech.* Journal of Mathematics and Mechanics. (Bloomington, Ind.)
- J. Math. Osaka City Univ.* Journal of Mathematics. Osaka City University. (Osaka) (Continued as: *Osaka J. Math.*)
- J. Math. Pures Appl.* Journal de Mathématiques Pures et Appliquées. (Paris)
- J. Math. Soc. Japan.* Journal of the Mathematical Society of Japan. (Tokyo)
- J. Mathematical Phys.* Journal of Mathematical Physics. (New York)
- J. Mathematical Psychology.* Journal of Mathematical Psychology. (New York)

ABBREVIATIONS OF NAMES OF JOURNALS

- J. Méc. Phys. Atmos.* Journal de Mécanique et de Physique de l'Atmosphère. (Paris)
- J. Mécanique.* Journal de Mécanique. (Paris)
- J. Mech. Phys. Solids.* Journal of the Mechanics and Physics of Solids. (London)
- J. Nara Gakugei Univ.* The Journal of Nara Gakugei University. (Nara) (Continued as: *J. Nara Gakugei Univ. Natur. Sci.*)
- J. Nara Gakugei Univ. Natur. Sci.* The Journal of Nara Gakugei University. Natural Science. (Nara) (Formerly: *J. Nara Gakugei Univ.*)
- J. Natur. Sci. and Math.* The Journal of Natural Sciences and Mathematics. (Lahore)
- J. Operations Res. Soc. Japan.* Journal of the Operations Research Society of Japan. (Tokyo)
- J. Opt. Soc. Amer.* Journal of the Optical Society of America. (New York)
- J. Osaka Inst. Sci. Tech. Part I.* Journal of the Osaka Institute of Science and Technology. (Kinki University). Part I. Mathematics and Physics. (Osaka)
- J. Phys. Soc. Japan.* Journal of the Physical Society of Japan. (Tokyo)
- J. Proc. Roy. Soc. New South Wales.* Journal and Proceedings of the Royal Society of New South Wales. (Sydney)
- J. Reine Angew. Math.* Journal für die reine und angewandte Mathematik. (Berlin)
- J. Res. Nat. Bur. Standards Sect. B.* Journal of Research of the National Bureau of Standards. B. Mathematics and Mathematical Physics. (Washington, D.C.)
- J. Res. Nat. Bur. Standards Sect. D.* Journal of Research of the National Bureau of Standards. Section D. Radio Science. (Washington, D.C.)
- J. Roy. Aero. Soc.* The Journal of the Royal Aeronautical Society. (London) See *J. Roy. Aeronaut. Soc.*
- J. Roy. Aeronaut. Soc.* The Journal of the Royal Aeronautical Society. (London) (Formerly listed as: *J. Roy. Aero. Soc.*)
- J. Roy. Astronom. Soc. Canada.* The Journal of the Royal Astronomical Society of Canada. (Toronto, Ont.)
- J. Roy. Statist. Soc. Ser. A.* Journal of the Royal Statistical Society. Series A. (General). (London)
- J. Roy. Statist. Soc. Ser. B.* Journal of the Royal Statistical Society. Series B. (Methodological). (London)
- J. Sci. Engrg. Res.* Journal of Science and Engineering Research. (Kharagpur)
- J. Sci. Hiroshima Univ. Ser. A-I Math.* Journal of Science of the Hiroshima University. Series A-I (Mathematics). (Hiroshima)
- J. Sci. Res. Banaras Hindu Univ.* The Journal of Scientific Research of the Banaras Hindu University. (Banaras)
- J. Ship Res.* Journal of Ship Research. (New York)
- J. SIAM Control Ser. A.* Journal of the Society for Industrial and Applied Mathematics on Control. Series A. (Philadelphia, Pa.) See *J. Soc. Indust. Appl. Math. Ser. A Control.*
- J. Soc. Indust. Appl. Math.* Journal of the Society for Industrial and Applied Mathematics. (Philadelphia, Pa.)
- J. Soc. Indust. Appl. Math. Ser. A Control.* Journal of the Society for Industrial and Applied Mathematics. Series A: Control. (Philadelphia, Pa.) (Formerly listed as: *J. SIAM Control Ser. A*)
- J. Symbolic Logic.* The Journal of Symbolic Logic. (New Brunswick, N.J.)
- J. Univ. Bombay.* Journal of the University of Bombay. (Bombay)
- J. Washington Acad. Sci.* Journal of the Washington Academy of Sciences. (Washington, D.C.)
- J. Zosen Kiokai.* Journal of Zosen Kiokai. (Tokyo)
- Janus.* Janus. Revue Internationale de l'Histoire des Sciences, de la Médecine, de la Pharmacie et de la Technique. (Leiden)
- Japan. J. Math.* Science Council of Japan. Japanese Journal of Mathematics. (Tokyo)
- Jber. Deutsch. Math.-Verein.* Jahresbericht der Deutschen Mathematiker-Vereinigung. (Stuttgart)
- Kabardino-Balkarsk. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat.* Kabardino-Balkarskii Gosudarstvennyi Universitet. Učeny Zapiski. Serija Fiziko-Matematičeskaja. (Nalchik)
- Kalinin. Gos. Ped. Inst. Učen. Zap.* Kalininskii Gosudarstvennyi Pedagogičeskii Institut im. M. I. Kalinina. Učeny Zapiski. (Kalinin)
- Kazan. Gos. Univ. Učen. Zap.* Kazanskii Ordena Trudovogo Krasnogo Znameni Gosudarstvennyi Universitet im. V. I. Ul'janova-Lenina. Učeny Zapiski. (Kazan)
- Kišinev. Gos. Univ. Učen. Zap.* Komitet Vysšego i Srednego Special'nogo Obrazovanija Soveta Ministrov Moldavskoi SSR. Kišinevskii Gosudarstvennyi Universitet. Učeny Zapiski. (Kišinev)
- Kōdai Math. Sem. Rep.* Kōdai Mathematical Seminar Reports. (Tokyo)
- Köz. Mat. Lapok.* Középiskolai Matematikai Lapok. (Budapest)
- Kristallografija.* Akademija Nauk SSSR. Kristallografija. (Moscow) (Translated as: *Soviet Physics Cryst.*)
- Kumamoto J. Sci. Ser. A.* Kumamoto Journal of Science. Series A. (Mathematics, Physics and Chemistry). (Kumamoto)
- Kungl. Fysiogr. Sällsk. i Lund Handl.* Acta Regiae Societatis Physiographicae Lundensis. Kungl. Fysiografiska Sällskapet i Lund Handlingar. (Lund) (Same as: *Lunds Univ. Årsskr. Avd. 2*)
- Kungl. Svenska Vetenskapsakad. Handl.* Kungl. Svenska Vetenskapsakademien Handlingar. (Stockholm)
- Kungl. Tekn. Högsk. Handl. Stockholm.* Kungl. Tekniska Högskolans Handlingar. Transactions of the Royal Institute of Technology, Stockholm, Sweden. (Stockholm)
- Kybernetik.* Kybernetik. (Berlin)
- Kyungpook Math. J.* Kyungpook Mathematical Journal. (Taegu)
- Latvijas PSR Zinātņu Akad. Vēstis.* Latvijas PSR Zinātņu Akademijas Vēstis. Izvestija Akademii Nauk Latvijas SSR. (Riga)
- Latvijas PSR Zinātņu Akad. Vēstis Fiz. Tehn. Zinātņu Ser.* Latvijas PSR Zinātņu Akademijas Vēstis. Fizikas un Tehnisko Zinātņu Sērija. Izvestija Akademii Nauk Latvijas SSR. Serija Fizičeskii i Tehničeskii Nauk. (Riga)
- Latvijas Valsts Univ. Zinātņu. Raksti.* Pēterburgas Latvijas Valsts Universitāte. Zinātniskie Raksti. Ministerstvo Vysšego Obrazovanija. Latvijas Gosudarstvennyi Universitet im. Petra Stučki. Učeny Zapiski. (Riga)
- Leningrad. Gos. Ped. Inst. Učen. Zap.* Leningradskii Gosudarstvennyi Pedagogičeskii Institut im. A. I. Gercena. Učeny Zapiski. (Leningrad)
- Leningrad. Gos. Univ. Učen. Zap. Ser. Mat. Nauk.* Leningradskii Gosudarstvennyi Ordena Lenina Universitet im. A. A. Ždanova. Učeny Zapiski. Serija Matematičeskii Nauk. (Leningrad)
- Litovsk. Mat. Šb.* Vysšie Učebnye Zavedenija Litovskoi SSR Litovskii Matematičeskii Sbornik. (Vilna)
- Logique et Analyse.* Logique et Analyse. (Louvain)
- Lucrăr. Ști. Inst. Ped. Timișoara Mat.-Fiz.* Ministerul Învățămîntului și Culturii. Lucrările Științifice ale Institutului Pedagogic Timișoara. Matematică-Fizică. (Timișoara)
- Lunds Univ. Årsskr. Avd. 2.* Acta Universitatis Lundensis. Lunds Universitets Årsskrift. Andra Avdelningen. (Lund) (Same as: *Kungl. Fysiogr. Sällsk. i Lund. Handl.*) (Continued as: *Acta Univ. Lund. Sect. II*)

ABBREVIATIONS OF NAMES OF JOURNALS

- L'vov. Politehn. Inst. Naučn. Zap. Ser. Fiz.-Mat.* MVO USSR. L'vovskii Politehnicheskii Institut. Nauchnye Zapiski. Seriya Fiziko-Matematicheskaja. (Lvov)
- Magyar Tud. Akad. Mat. Fiz. Ossz. Kész.* A Magyar Tudományos Akadémia Matematikai és Fizikai Tudományok Osztályának Közleményei. (Budapest)
- Magyar Tud. Akad. Mat. Kutató Int. Kész.* A Magyar Tudományos Akadémia Matematikai Kutató Intézetének Közleményei. (Budapest)
- Management Sci.* Management Science. Journal of the Institute of Management Science. (Philadelphia, Pa.)
- Mat.-Fys. Medd. Danske Vid. Selsk.* Matematiskfysiske Meddelelser udgivet af Det Kongelige Danske Videnskabernes Selskab. (Copenhagen)
- Mat.-Fys. Skr. Danske Vid. Selsk.* Matematiskfysiske Skrifter udgivet af Det Kongelige Danske Videnskabernes Selskab. (Copenhagen)
- Mat.-Fyz. Časopis Sloven. Akad. Vied.* Matematicko-Fyzikálny Časopis. Slovenská Akadémia Vied. (Bratislava)
- Mat. Lapok.* Matematikai Lapok. Bolyai János Matematikai Társulat. (Budapest)
- Mat. Sb.* Matematicheskii Sbornik. Novaja Seriya. (Moscow)
- Mat. Voenik.* Matematički Voenik. Nova Seriya. (Belgrade) (Formerly: *Bull. Soc. Math. Phys. Serbie*)
- Matematichesk. (Catania).* Le Matematiche. (Catania)
- Math. Ann.* Mathematische Annalen. (Berlin-Göttingen-Heidelberg)
- Math. Centrum Amsterdam Afd. Toegepaste Wisk.* Mathematisch Centrum Amsterdam. Afd. Toegepaste Wiskunde. (Amsterdam)
- Math. Centrum Amsterdam Afd. Zuivere Wisk.* Mathematisch Centrum Amsterdam. Afdeling Zuivere Wiskunde. (Amsterdam) (Formerly: *Math. Centrum Amsterdam Rap.*)
- Math. Centrum Amsterdam Rap.* Mathematisch Centrum Amsterdam. Rapport. (Amsterdam) (Continued as: *Math. Centrum Amsterdam Afd. Zuivere Wisk.*)
- Math. Centrum Amsterdam Rekenafdeling.* Mathematisch Centrum Amsterdam. Rekenafdeling. (Amsterdam)
- Math. Comp.* Mathematics of Computation. (Washington, D.C.)
- Math. Gaz.* The Mathematical Gazette. (London)
- Math. J. Okayama Univ.* Mathematical Journal of Okayama University. (Okayama)
- Math. Japon.* Mathematica Japonicae. (Kobe)
- Math. Mag.* Mathematics Magazine. (Buffalo, N.Y.)
- Math. Nachr.* Mathematische Nachrichten. (Berlin)
- Math. Naturwiss. Unterricht.* Der mathematische und naturwissenschaftliche Unterricht. (Bonn)
- Math. Notae.* Mathematicae Notae. Boletín del Instituto de Matemática. (Rosario)
- Math.-Phys. Semesterber.* Mathematisch-Physikalische Semesterberichte. (Göttingen)
- Math. Reviews.* Mathematical Reviews. (Providence, R.I.) (Usually abbreviated as *MR* in the text of *Math. Reviews*)
- Math. Scand.* Mathematica Scandinavica. (Copenhagen)
- Math. Student.* The Mathematics Student. (Madras)
- Math.-Tech. Wirtschaft.* Mathematik-Technik-Wirtschaft. Zeitschrift für moderne Rechentchnik und Automation. (Vienna)
- Math. und Wirtschaft.* Mathematik und Wirtschaft. (Berlin)
- Math. Z.* Mathematische Zeitschrift. (Berlin-Göttingen-Heidelberg)
- Mathematica (Cluj).* Societatea de Științe Matematice și Fizice din R.P.R. Filiala Cluj. Mathematica. (Cluj)
- Mathematika.* Mathematika. A Journal of Pure and Applied Mathematics. (London)
- Mathematikunterricht.* Der Mathematikunterricht. Beiträge zu seiner wissenschaftlichen und methodischen Gestaltung. (Stuttgart)
- Mathesis.* Mathesis. Recueil Mathématique à l'Usage des Écoles Spéciales et des Établissements d'Instruction Moyenne. (Mons)
- Matrix Tensor Quart.* The Tensor Club of Great Britain. The Matrix and Tensor Quarterly. (London)
- Medd. Lunds Astronom. Obs. Ser. I.* Meddelanden från Lunds Astronomiska Observatorium. Series I. (Lund)
- Medd. Lunds Astronom. Obs. Ser. II.* Meddelanden från Lunds Astronomiska Observatorium. Series II. (Lund)
- Medd. Lunds Univ. Mat. Sem.* Meddelanden från Lunds Universitets Matematiska Seminarium. Communications du Séminaire Mathématique de l'Université de Lund. (Lund)
- Mem. Acad. Ci. Madrid.* Memorias de la Real Academia de Ciencias Exactas, Físicas y Naturales de Madrid. Serie de Ciencias Exactas. (Madrid)
- Mem. Amer. Math. Soc.* Memoirs of the American Mathematical Society. (Providence, R.I.)
- Mem. Defense Acad.* Memoirs of the Defense Academy (Mathematics, Physics, Chemistry and Engineering) (Yokosuka)
- Mem. Fac. Ci. Univ. Habana Ser. Mat.* Memorias de la Facultad de Ciencias. Universidad de la Habana. Serie Matemática. (Havana)
- Mem. Fac. Ed. Kumamoto Univ.* Memoirs of the Faculty of Education. Kumamoto University. (Kumamoto). (Continued as: *Mem. Fac. Ed. Kumamoto Univ. Sect. 1*)
- Mem. Fac. Ed. Kumamoto Univ. Sect. 1.* Memoirs of the Faculty of Education. Kumamoto University. Section 1. (Natural Science). (Kumamoto) (Formerly: *Mem. Fac. Ed. Kumamoto Univ.*)
- Mem. Fac. Engrg. Hiroshima Univ.* Memoirs of the Faculty of Engineering. Hiroshima University. (Hiroshima)
- Mem. Fac. Engrg. Miyazaki Univ.* Memoirs of the Faculty of Engineering, Miyazaki University. (Miyazaki)
- Mem. Fac. Sci. Kyushu Univ. Ser. A.* Memoirs of the Faculty of Science. Kyushu University. Series A. Mathematics. (Fukuoka)
- Mem. Ist. Lombardo Accad. Sci. Lett. Cl. Sci. Mat. Natur.* Memorie dell'Istituto Lombardo. Accademia di Scienze e Lettere. Classe di Scienze Matematiche e Naturali. (Milan)
- Mem. Kitami College Tech.* Memoirs of the Kitami College of Technology. (Kitami)
- Mem. Mat. Inst. "Jorge Juan".* Consejo Superior de Investigaciones Científicas. Memorias de Matemática del Instituto "Jorge Juan". (Madrid)
- Mem. Muroran Inst. Tech.* Memoirs of the Muroran Institute of Technology. (Murooran)
- Mem. Osaka Univ. Lib. Arts Ed. Ser. B.* Memoirs of the Osaka University of the Liberal Arts and Education. Series B. Natural Science. (Osaka)
- Mem. Proc. Manchester Lit. Philos. Soc.* Memoirs and Proceedings of the Manchester Literary & Philosophical Society. (Manchester)
- Mem. Real Acad. Ci. Art. Barcelona.* Memorias de la Real Academia de Ciencias y Artes de Barcelona. (Barcelona)
- Mem. Roy. Astronom. Soc.* Memoirs of the Royal Astronomical Society. (London)
- Mem. School Sci. Engrg. Waseda Univ. Tokyo.* Memoirs of the School of Science and Engineering. Waseda University, Tokyo. (Tokyo)
- Mem. Soc. Astronom. Ital.* Memorie della Società Astronomica Italiana. (Milan)
- Mém. Soc. Roy. Sci. Liège Coll. in-4°.* Mémoires de la Société Royale des Sciences de Liège. Collection in-4°. (Liège)

ABBREVIATIONS OF NAMES OF JOURNALS

- Mém. Soc. Roy. Sci. Liège Coll. in-8°.* Mémoires de la Société Royale des Sciences de Liège. Collection in-8°. (Liège)
- Mémor. Sci. Math.* Mémorial des Sciences Mathématiques. (Paris)
- Mémor. Sci. Phys.* Mémorial des Sciences Physiques. (Paris)
- Météorol.* La Météorologie. (Paris)
- Metrika.* Metrika. (Würzburg)
- Metroecon.* Metroeconomica. Rivista Internazionale di Economica. (Bologna)
- Metron.* Metron. (Rome)
- Michigan Math. J.* The Michigan Mathematical Journal. (Ann Arbor, Mich.)
- Min. Proc. Roy. Irish Acad.* Minutes of Proceedings. Royal Irish Academy. (Dublin)
- Mind.* Mind. A Quarterly Review of Psychology and Philosophy. (London)
- Mitt. Inst. Angew. Math. Zürich.* Mitteilungen aus dem Institut für angewandte Mathematik an der Eidgenössischen Technischen Hochschule in Zürich. (Zürich)
- Mitt. Inst. Theoret. Phys. Geophys. Bergakad. Freiberg.* Mitteilungen aus dem Institut für Theoretische Physik und Geophysik der Bergakademie Freiberg. (Freiberg)
- Mitt. Math. Ges. Hamburg.* Mitteilungen der mathematischen Gesellschaft in Hamburg. (Hamburg)
- Mitt. Math. Sem. Giessen.* Mitteilungen aus dem Mathematischen Seminar Giessen. (Giessen) (Formerly: *Mitt. Math. Sem. Univ. Giessen*)
- Mitt. Math. Sem. Univ. Giessen.* Mitteilungen des Mathematischen Seminars der Universität Giessen. (Giessen) (Continued as: *Mitt. Math. Sem. Giessen*)
- Mitt. Max-Planck-Inst. Strömungsforsch.* Mitteilungen aus dem Max-Planck-Institut für Strömungsforschung. (Göttingen)
- Mitt. Naturforsch. Ges. Bern.* Mitteilungen der Naturforschenden Gesellschaft Bern. (Bern)
- Mitt. Verein. Schweiz. Versich.-Math.* Mitteilungen der Vereinigung Schweizerischer Versicherungsmathematiker. Bulletin de l'Association des Actuaires Suisses. (Bern)
- Molecular Phys.* Molecular Physics. (London)
- Monatsb. Deutsch. Akad. Wiss. Berlin.* Monatsberichte der Deutschen Akademie der Wissenschaften zu Berlin. (Berlin)
- Monatsh. Math.* Monatshefte für Mathematik. (Vienna)
- Monthly Notices Roy. Astronom. Soc.* Monthly Notices of the Royal Astronomical Society. (London)
- Moskov. Gos. Univ. Soobšč. Gos. Astronom. Inst. Šternberg.* Moskovskij Gosudarstvennyj Universitet im. M. V. Lomonosova. Soobščeniya Gosudarstvennogo Astronomičeskogo Instituta im. P. K. Šternberga. (Moscow)
- Moskov. Gos. Univ. Trudy Gos. Astronom. Inst. Šternberg.* Moskovskij Gosudarstvennyj Universitet im. M. V. Lomonosova. Trudy Gosudarstvennogo Astronomičeskogo Instituta im. P. K. Šternberga. (Moscow)
- Moskov. Oblast. Ped. Inst. Učen. Zap. Moskovskij Oblastnoi Pedagogičeskij Institut.* Učenyje Zapiski. (Moscow)
- M.R.* Mathematical Reviews. (Providence, R.I.)
- Nachr. Akad. Wiss. Göttingen Math.-Phys. Kl. II.* Nachrichten der Akademie der Wissenschaften in Göttingen. II. Mathematisch-Physikalische Klasse. (Göttingen)
- Nagoya Math. J.* Nagoya Mathematical Journal. (Nagoya)
- Nat. Bur. Standards Appl. Math. Ser.* National Bureau of Standards. Applied Mathematics Series. (Washington, D.C.)
- Nat. Luchtvaartlab. Amsterdam Rep.* Nationaal Luchtvaartlaboratorium. National Aeronautical Research Institute, Amsterdam. Report. (Amsterdam)
- Natur. Sci. Rep. Ochanomizu Univ.* Natural Science Report of the Ochanomizu University. (Tokyo)
- Naturwissenschaften.* Die Naturwissenschaften. (Berlin-Göttingen-Heidelberg)
- Naval Res. Logist. Quart.* Naval Research Logistics Quarterly. (Washington, D.C.)
- Navigation.* Navigation. Journal of the Institute of Navigation. (Los Angeles, Calif.)
- Nederl. Akad. Wetensch. Indag. Math.* Koninklijke Nederlandse Akademie van Wetenschappen. Indagationes Mathematicae ex Actis Quibus Titulus. Proceedings of the Section of Sciences. (Amsterdam) (Same as: *Nederl. Akad. Wetensch. Proc. Ser. A*)
- Nederl. Akad. Wetensch. Proc. Ser. A.* Koninklijke Nederlandse Akademie van Wetenschappen. Proceedings. Series A. Mathematical Sciences. (Amsterdam) (Same as: *Nederl. Akad. Wetensch. Indag. Math.*)
- Nederl. Akad. Wetensch. Proc. Ser. B.* Koninklijke Nederlandse Akademie van Wetenschappen. Proceedings. Series B. Physical Sciences. (Amsterdam)
- Nederl. Akad. Wetensch. Verslag Afd. Natuurk.* Koninklijke Nederlandse Akademie van Wetenschappen. Verslag van de Gewone Vergadering van de Afdeling Natuurkunde. (Amsterdam)
- Nederl. Tijdschr. Natuurk.* Nederlands Tijdschrift voor Natuurkunde. (Utrecht)
- New Zealand J. Sci.* New Zealand Journal of Science. (Wellington)
- Nieuw Arch. Wisk.* Nieuw Archief voor Wiskunde. (Groningen)
- Nieuw Tijdschr. Wisk.* Nieuw Tijdschrift voor Wiskunde. (Groningen-Djakarta)
- Nordisk Mat. Tidsskr.* Nordisk Matematisk Tidsskrift. (Oslo)
- Nordisk Tidsskr. Informations-Behandling.* Nordisk Tidsskrift for Informations-Behandling. (Copenhagen)
- Norske Vid. Selsk. Forh. (Trondheim).* Det Kongelige Norske Videnskabers Selskabs Forhandlinger. (Trondheim)
- Norske Vid. Selsk. Skr. (Trondheim).* Det Kongelige Norske Videnskabers Selskabs Skrifter. (Trondheim)
- Notas Mat.* Notas de Matemática. (Rio de Janeiro)
- Notices Amer. Math. Soc.* Notices of the American Mathematical Society. (Providence, R.I.) (Formerly: *Amer. Math. Soc. Notices*)
- Notre Dame J. Formal Logic.* Notre Dame Journal of Formal Logic. (Notre Dame, Ind.)
- Nova Acta Soc. Sci. Upsal.* Nova Acta Regiae Societatis Scientiarum Upsalienis. (Uppsala)
- Nuclear Fusion.* Nuclear Fusion. (Vienna)
- Nuclear Phys.* Nuclear Physics. (Amsterdam)
- Nuclear Sci. Abstracts.* Nuclear Science Abstracts. (Oak Ridge, Tenn.)
- Numer. Math.* Numerische Mathematik. (Berlin-Göttingen-Heidelberg)
- Nuovo Cimento.* Il Nuovo Cimento. (Bologna)
- Nuovo Cimento Suppl.* Supplemento al Nuovo Cimento. (Bologna)
- O.N.E.R.A. Publ.* Office National d'Études et de Recherches Aéronautiques. Publication. (Paris)
- Observatory.* The Observatory. A Review of Astronomy. (Hillsdale)
- Operations Res.* Operations Research. The Journal of the Operations Research Society of America. (Baltimore, Md.) (Sometimes abbreviated as *OR* in *Math. Reviews*)
- Optica Acta.* Optica Acta. (London)
- Optik.* Optik. Zeitschrift für das gesamte Gebiet der Licht- und Elektronenoptik. (Stuttgart)

ABBREVIATIONS OF NAMES OF JOURNALS

- Optika i Spektrosk.* Akademija Nauk SSSR. Optika i Spektroskopiya. (Moscow-Leningrad)
- Osaka J. Math.* Osaka Journal of Mathematics. (Osaka) (Formerly: *J. Math. Osaka City Univ.* and *Osaka Math. J.*)
- Osaka Math. J.* Osaka Mathematical Journal. (Osaka) (Continued as: *Osaka J. Math.*)
- Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II.* Österreichische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Sitzungsberichte. Abteilung II. Mathematik, Astronomie, Physik, Meteorologie und Technik. (Vienna)
- Österreich. Ing.-Arch.* Österreichisches Ingenieur-Archiv. (Vienna)
- Pacific J. Math.* Pacific Journal of Mathematics. (Berkeley, Calif.)
- Papers and Proc. Roy. Soc. Tasmania.* Papers and Proceedings of the Royal Society of Tasmania. (Hobart)
- Period. Mat.* Periodico di Matematiche. (Bologna)
- Perm. Gos. Univ. Učen. Zap. Mat.* Ministerstvo Vysshego i Srednego Special'nogo Obrazovaniya RSFSR. Permskii Gosudarstvennyi Universitet im. A. M. Gor'kogo. Učenyje Zapiski. Matematika. (Perm)
- Philos. Mag.* The Philosophical Magazine. A Journal of Theoretical, Experimental and Applied Science. (London)
- Philos. Rev.* The Philosophical Review. (Ithaca, N.Y.)
- Philos. Sci.* Philosophy of Science. (Baltimore, Md.)
- Philos. Trans. Roy. Soc. London Ser. A.* Philosophical Transactions of the Royal Society of London. Series A. Mathematical and Physical Sciences. (London)
- Phys. Fluids.* The Physics of Fluids. (New York)
- Phys. Lett.* Physics Letters. (Amsterdam)
- Phys. Norveg.* Physica Norvegica. (Oslo)
- Phys. Rev.* The Physical Review. (New York)
- Phys. Rev. Lett.* Physical Review Letters. (New York)
- Physica.* Physica. (Amsterdam)
- PMTF Ž. Prikl. Meh. i Tehn. Fiz.* PMTF. Žurnal Prikladnoi Mehaniki i Tehničeskoi Fiziki. (Moscow)
- Polska Biblio. Analit. Mech.* Polska Akademia Nauk. Instytut Podstawowych Problemów Techniki. Polska Bibliografia Analityczna. Mechanika. Polish Scientific Abstracts. Mechanics. (Warsaw)
- Portugal. Math.* Portugaliae Mathematica. (Lisbon)
- Portugal. Phys.* Portugaliae Physica. (Lisbon)
- Práce Brn. Českoslov. Akad. Věd.* Práce Brněnské Základny Československé Akademie Věd. Acta Academiae Scientiarum Českoslovenicae Basis Brunensis. (Brno)
- Prace Mat. Roczniki Polskiego Towarzystwa Matematycznego. Seria I. Prace Matematyczne.* (Warsaw)
- Prakt. Akad. Athēnōn.* Πρακτικὰ τῆς Ἀκαδημίας Ἀθηνῶν. (Athens)
- Prikl. Mat. Meh.* Akademija Nauk SSSR. Otdelenie Tehničeskikh Nauk. Institut Mehaniki. Prikladnaja Matematika i Mehanika. (Moscow) (Translated as: *J. Appl. Math. Mech.*)
- Prikladna Meh.* Akademija Nauk Ukraïna'kol RSR. Institut Mehaniki. Prikladna Mehanika. (Kiev)
- Problemy Kibernet.* Problemy Kibernetiki. (Moscow)
- Problemy Peredači Informacii.* Akademija Nauk SSSR. Laboratorija Sistem Peredači Informacii. Problemy Peredači Informacii. (Moscow)
- Proc. Amer. Math. Soc.* Proceedings of the American Mathematical Society. (Providence, R.I.)
- Proc. Cambridge Philos. Soc.* Proceedings of the Cambridge Philosophical Society. (Cambridge, England)
- Proc. Edinburgh Math. Soc.* Proceedings of the Edinburgh Mathematical Society. (Edinburgh)
- Proc. Edinburgh Math. Soc. Edinburgh Math. Notes.* Proceedings of the Edinburgh Mathematical Society. Edinburgh Mathematical Notes. (Edinburgh)
- Proc. Egyptian Acad. Sci.* Proceedings of the Egyptian Academy of Sciences. (Cairo)
- Proc. Fac. Engrg. Keio Univ.* Proceedings of the Fujihara Memorial Faculty of Engineering. Keio University. (Tokyo)
- Proc. Glasgow Math. Assoc.* Proceedings of the Glasgow Mathematical Association. (Glasgow)
- Proc. IEEE.* Proceedings of the IEEE. (New York)
- Proc. Indian Acad. Sci. Sect. A.* Proceedings of the Indian Academy of Sciences. Section A. (Bangalore)
- Proc. Indiana Acad. Sci.* Proceedings of the Indiana Academy of Science. (Indianapolis, Ind.)
- Proc. Inst. Elec. Engrs. B.* The Proceedings of the Institution of Electrical Engineers. Part B. Radio and Electronic Engineering (including Communication Engineering). (London)
- Proc. Inst. Elec. Engrs. C.* The Proceedings of the Institution of Electrical Engineers. Part C. Monographs. (London)
- Proc. Inst. Mech. Engrs.* Proceedings of the Institution of Mechanical Engineers. (London)
- Proc. Inst. Statist. Math.* The Proceedings of the Institute of Statistical Mathematics. (Tokyo)
- Proc. Iowa Acad. Sci.* Proceedings of the Iowa Academy of Science. (Des Moines, Iowa)
- Proc. Iraqi Sci. Soc.* Proceedings of the Iraqi Scientific Societies. (Baghdad)
- Proc. Japan Acad.* Proceedings of the Japan Academy. (Tokyo)
- Proc. London Math. Soc.* Proceedings of the London Mathematical Society. (London)
- Proc. Math. Phys. Soc. U.A.R.* Proceedings of the Mathematical and Physical Society of U.A.R. (Cairo) (Continued as: *Proc. Math. Phys. Soc. U.A.R. (Egypt)*)
- Proc. Math. Phys. Soc. U.A.R. (Egypt).* Proceedings of the Mathematical and Physical Society of U.A.R. (Egypt). (Cairo) (Formerly: *Proc. Math. Phys. Soc. U.A.R.*)
- Proc. Nat. Acad. Sci. India Sect. A.* Proceedings of the National Academy of Sciences, India. Section—A. (Allahabad)
- Proc. Nat. Acad. Sci. U.S.A.* Proceedings of the National Academy of Sciences of the United States of America. (Washington, D.C.)
- Proc. Nat. Inst. Sci. India Part A.* Proceedings of the National Institute of Sciences of India. Part A. Physical Sciences. (New Delhi)
- Proc. Pakistan Statist. Assoc.* Proceedings of the Pakistan Statistical Association. (Lahore)
- Proc. Phys. Soc.* Proceedings of the Physical Society. (London)
- Proc. Rajasthan Acad. Sci.* The Proceedings of The Rajasthan Academy of Sciences. (Pilani)
- Proc. Roy. Irish Acad. Sect. A.* Proceedings of the Royal Irish Academy. Section A. (Dublin)

ABBREVIATIONS OF NAMES OF JOURNALS

- Proc. Roy. Soc. Edinburgh Sect. A.* Proceedings of the Royal Society of Edinburgh. Section A. (Mathematical and Physical Sciences). (Edinburgh)
- Proc. Roy. Soc. New Zealand.* Proceedings of the Royal Society of New Zealand. (Wellington)
- Proc. Roy. Soc. Ser. A.* Proceedings of the Royal Society. Series A. Mathematical and Physical Sciences. (London)
- Proc. Roy. Soc. Victoria.* Proceedings of the Royal Society of Victoria. New Series. (Melbourne)
- Proc. Vibration Problems.* Polish Academy of Sciences. Institute of Basic Technical Problems. Proceedings of Vibration Problems. (Warsaw)
- Progr. Theoret. Phys.* Progress of Theoretical Physics. (Kyoto)
- Psychometrika.* Psychometrika. A Journal Devoted to the Development of Psychology as a Quantitative Rational Science. (Chapel Hill, N.C.)
- Publ. Astronom. Soc. Pacific.* Publications of the Astronomical Society of the Pacific. (San Francisco, Calif.)
- Publ. Inst. Math. (Beograd).* Institut Mathématique. Publications de l'Institut Mathématique. Nouvelle Série. (Belgrade)
- Publ. Inst. Statist. Univ. Paris.* Publications de l'Institut de Statistique de l'Université de Paris. (Paris)
- Publ. Math. Debrecen.* Publicationes Mathematicae. (Debrecen)
- Publ. Sci. Tech. Ministère de l'Air (Paris).* Publications Scientifiques et Techniques du Ministère de l'Air. (Paris)
- Publ. Sci. Tech. Ministère de l'Air (Paris) Notes Tech.* Publications Scientifiques et Techniques du Ministère de l'Air. Notes Techniques. (Paris)
- Publ. Sci. Univ. Alger Sér. A.* Publications Scientifiques de l'Université d'Alger. Série A. Sciences Mathématiques. (Algiers)
- Publ. Sémin. Géom. Univ. Neuchâtel.* Publications du Séminaire de Géométrie de l'Université de Neuchâtel. (Neuchâtel)
- Quart. Appl. Math.* Quarterly of Applied Mathematics. (Providence, R.I.)
- Quart. J. Math. Oxford Ser.* The Quarterly Journal of Mathematics, Oxford Second Series. (Oxford)
- Quart. J. Mech. Appl. Math.* The Quarterly Journal of Mechanics and Applied Mathematics. (Oxford)
- Quart. J. Roy. Astronom. Soc.* The Quarterly Journal of the Royal Astronomical Society. (London)
- Quart. Rev. Sci. Publ.* Polish Academy of Sciences. Distribution Centre for Scientific Publications. Quarterly Review of Scientific Publications. (Warsaw)
- RAAG Newsletter.* RAAG Newsletter. (Tokyo)
- RAAG Res. Notes.* RAAG Research Notes. (Tokyo)
- Rad Jugoslav. Akad. Znan. Umjet. Odjel Mat. Fiz. Tehn. Nauke.* Rad Jugoslavenske Akademije Znanosti i Umjetnosti. Odjel za Matematičke, Fizičke i Tehničke Nauke. (Zagreb)
- Radio Engrg. and Electronics.* Radio Engineering and Electronics. (Translation of *Radiotekhnika i Elektronika*, a U.S.S.R. Academy of Sciences Publication). (New York) (Translation of *Radiotekhn. i Elektron.*)
- Radiotekhn. i Elektron.* Akademija Nauk SSSR. Radiotekhnika i Elektronika. (Moscow) (Translated as: *Radio Engrg. and Electronics*)
- Ratio.* Ratio. (Oxford)
- RCA Rev.* RCA Review. (New York)
- Rech. Aéro.* La Recherche Aéronautique. (Paris) (Continued as: *Recherche Aérospat.*)
- Recherche Aérospat.* La Recherche Aérospatiale. (Paris) (Formerly: *Rech. Aéro.*)
- Rend. Accad. Naz. dei XL.* Rendiconti, Accademia Nazionale dei XL. (Rome)
- Rend. Accad. Sci. Fis. Mat. Napoli.* Società Nazionale di Napoli. Rendiconto dell'Accademia delle Scienze Fisiche e Matematiche. (Naples)
- Rend. Circ. Mat. Palermo.* Rendiconti del Circolo Matematico di Palermo. (Palermo)
- Rend. Mat. e Appl.* Università di Roma. Istituto Nazionale di Alta Matematica. Rendiconti di Matematica e delle sue Applicazioni. (Rome)
- Rend. Sem. Fac. Sci. Univ. Cagliari.* Rendiconti del Seminario della Facoltà di Scienze della Università di Cagliari. (Cagliari)
- Rend. Sem. Mat. Fis. Milano.* Rendiconti del Seminario Matematico e Fisico di Milano. (Milan)
- Rend. Sem. Mat. Univ. Padova.* Rendiconti del Seminario Matematico dell'Università di Padova. (Padova)
- Rep. Inst. Sci. Tech. Univ. Tokyo.* The Reports of the Institute of Science and Technology, University of Tokyo. (Tokyo)
- Rep. Lib. Arts Sci. Fac. Shizuoka Univ. Sect. Natur. Sci.* Reports of Liberal Arts and Science Faculty. Shizuoka University. Section Natural Science. (Shizuoka)
- Rep. Res. Inst. Appl. Mech. Kyushu Univ.* Reports of Research Institute for Applied Mechanics. Kyushu University. (Fukuoka)
- Rep. Statist. Appl. Res. Un. Japan. Sci. Engrs.* Reports of Statistical Application Research, Union of Japanese Scientists and Engineers. (Tokyo)
- Repúb. Venezuela Bol. Acad. Ci. Fis. Mat. Natur.* República de Venezuela. Boletín de la Academia de Ciencias Físicas, Matemáticas y Naturales. (Caracas)
- Res. Bull. Panjab Univ.* Research Bulletin of the Panjab University. (Hoshiarpur)
- Res. Rep. Nagaoka Tech. College.* Research Reports of the Nagaoka Technical College. (Nagaoka)
- Rev. Acad. Ci. Madrid.* Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales de Madrid. (Madrid)
- Rev. Acad. Ci. Zaragoza.* Revista de la Academia de Ciencias Exactas, Físico-Químicas y Naturales de Zaragoza. (Zaragoza)
- Rev. Acad. Colombiana Ci. Exact. Fis. Natur.* Revista de la Academia Colombiana de Ciencias Exactas, Físicas y Naturales. (Bogotá)
- Rev. Ci. (Lima).* Revista de Ciencias. (Lima)
- Rev. Fac. Ci. Univ. Coimbra.* Revista de Faculdade de Ciências da Universidade de Coimbra. (Coimbra)
- Rev. Française Traitement Information [Chiffres].* Revue Française de Traitement de l'Information. Chiffres. (Paris)
- Rev. Gén. Sci. Pures Appl.* Revue Générale des Sciences Pures et Appliquées et Bulletin de l'Association Française pour l'Avancement des Sciences. (Paris)
- Rev. Histoire Sci. Appl.* Revue d'Histoire des Sciences et de leurs Applications. (Paris)
- Rev. Inst. Internat. Statist.* Revue de l'Institut International de Statistique. Review of the International Statistical Institute. (The Hague)
- Rev. Mat. Elem.* Revista de Matemáticas Elementales. (Bogotá)
- Rev. Mat. Hisp.-Amer.* Revista Matemática Hispano-Americana. (Madrid)
- Rev. Math. Pures Appl.* Académie de la République Populaire Roumaine. Revue de Mathématiques Pures et Appliquées. (Bucharest)

ABBREVIATIONS OF NAMES OF JOURNALS

- Rev. Méc. Appl.* Académie de la République Populaire Roumaine. Revue de Mécanique Appliquée. (Bucharest)
- Rev. Mexicana Fis.* Revista Mexicana de Física. (Mexico, D.F.)
- Rev. Modern Phys.* Reviews of Modern Physics. (New York)
- Rev. Optique.* Revue d'Optique Théorique et Instrumentale. (Paris)
- Rev. Un. Mat. Argentina.* Revista de la Unión Matemática Argentina. (Buenos Aires)
- Rice Univ. Studies.* Rice University Studies. (Houston, Tex.)
- Ricerca (Napoli).* La Ricerca. Rivista di Matematiche Pure ed Applicate. (Naples)
- Ricerche Mat.* Ricerche di Matematica. (Naples)
- Riv. Mat. Univ. Parma.* Rivista di Matematica della Università di Parma. (Parma)
- Rjzansk. Gos. Ped. Inst. Učen. Zap.* Rjzanskij Gosudarstvennyj Pedagogičeskij Institut. Učeny Zapiski. (Ryazan)
- Rostov-na-Donu Gos. Ped. Inst. Fiz.-Mat. Fak. Učen. Zap.* Rostovskij-na-Donu Gosudarstvennyj Pedagogičeskij Institut. Fiziko-Matematičeskij Fakul'tet. Učeny Zapiski. (Rostov-on-Don)
- Rozprawy Československé Akad. Věd.* Rozprawy Československé Akademie Věd. (Prague)
- Rozprawy Inst. Polska Akademia Nauk.* Instytut Podstawowych Problemów Techniki. Rozprawy Inżynierskie. (Warsaw)
- Rozprawy Mat. Polska Akademia Nauk.* Instytut Matematyczny. Rozprawy Matematyczne. (Warsaw)
- Russian Math. Surveys.* Russian Mathematical Surveys. (A translation of the survey articles and of selected biographical articles in *Uspehi Matematičeskikh Nauk*). (London) (Translation of *Uspehi Mat. Nauk*)
- RŽ Astronom.* Akademija Nauk SSSR. Institut Naučnoj Informacii. Referativnyj Žurnal. Otdel'nyj Vypusk 51. Astronomija. (Moscow) (Formerly: *RŽ Astronom. Geod.*)
- RŽ Astronom. Geod.* Akademija Nauk SSSR. Institut Naučnoj Informacii. Referativnyj Žurnal. Astronomija Geodezija Referaty. (Moscow) (Continued as: *RŽ Astronom. and RŽ Geodes.*)
- RŽ Geodes.* Akademija Nauk SSSR. Institut Naučnoj Informacii. Referativnyj Žurnal. Otdel'nyj Vypusk 52. Geodezija. (Moscow) (Formerly: *RŽ Astronom. Geod.*)
- RŽMat.* Akademija Nauk SSSR. Institut Naučnoj Informacii. Referativnyj Žurnal. Matematika Referaty. (Moscow)
- RŽMek.* Akademija Nauk SSSR. Institut Naučnoj Informacii. Referativnyj Žurnal. Mekhanika Referaty. (Moscow)
- SA.* Science Abstracts. Section A. Physics Abstracts. (London)
- Sankhyā Ser. A.* Sankhyā. The Indian Journal of Statistics. Series A. (Calcutta)
- Sankhyā Ser. B.* Sankhyā. The Indian Journal of Statistics. Series B. (Calcutta)
- S.-B. Berlin. Akad. Ges.* Sitzungsberichte der Berliner Mathematischen Gesellschaft. (Berlin)
- S.-B. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* Sitzungsberichte der Deutschen Akademie der Wissenschaften zu Berlin. Klasse für Mathematik, Physik und Technik. (Berlin)
- S.-B. Finn. Akad. Wiss.* Sitzungsberichte der Finnischen Akademie der Wissenschaften. Proceedings of the Finnish Academy of Science and Letters. (Helsinki)
- S.-B. Heidelberger Akad. Wiss. Math.-Natur. Kl.* Sitzungsberichte der Heidelberger Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. (Heidelberg)
- S.-B. Phys.-Med. Soz. Erlangen.* Sitzungsberichte der physikalisch-medizinischen Societät zu Erlangen. (Erlangen)
- S.-B. Sächs. Akad. Wiss. Leipzig Math.-Natur. Kl.* Sitzungsberichte der Sächsischen Akademie der Wissenschaften zu Leipzig. Mathematisch-naturwissenschaftliche Klasse. (Berlin)
- Sb. Vysoké. Učení Tech. Brno.* Sborník Vysokého Učení Technického v Brně. (Brno)
- Schr. Math. Inst. Univ. Münster.* Schriftenreihe des Mathematischen Instituts der Universität Münster. (Münster)
- Schweiz. Z. Vermess. Kulturtech. Photogr.* Schweizerische Zeitschrift für Vermessung, Kulturtechnik und Photogrammetrie. Revue Technique Suisse des Mensurations, du Génie Rural et de Photogrammétrie. (Winterthur)
- Sci. Abstracts Sect. A.* Science Abstracts. Section A. Physics Abstracts. (London) (Usually abbreviated *SA* in the text of *Math. Reviews*)
- Sci. Abstracts Sect. B.* Science Abstracts. Section B. Electrical Engineering Abstracts. (London)
- Sci. Amer.* Scientific American. (New York)
- Sci. Information Notes.* Scientific Information Notes. (Washington, D.C.)
- Sci. Papers College Gen. Ed. Univ. Tokyo.* Scientific Papers of the College of General Education. University of Tokyo. (Tokyo)
- Sci. Papers Inst. Phys. Chem. Res.* Scientific Papers of the Institute of Physical and Chemical Research. (Tokyo)
- Sci. Proc. Roy. Dublin Soc. Ser. A.* The Scientific Proceedings of the Royal Dublin Society. Series A. (Dublin)
- Sci. Proc. Roy. Dublin Soc. Ser. B.* The Scientific Proceedings of the Royal Dublin Society. Series B. (Dublin)
- Sci. Rep. Fac. Lib. Arts Ed. Gifu Univ. Natur. Sci.* Science Report of the Faculty of Liberal Arts and Education, Gifu University. (Natural Science). (Gifu)
- Sci. Rep. Fac. Lit. Sci. Hirotsuki Univ.* Science Reports of the Faculty of Literature and Science. Hirotsuki University. (Hirotsuki)
- Sci. Rep. Kagoshima Univ.* Science Reports of the Kagoshima University. (Kagoshima)
- Sci. Rep. Kanazawa Univ.* The Science Reports of the Kanazawa University. (Kanazawa)
- Sci. Rep. Niigata Univ. Ser. A.* Science Reports of Niigata University. Series A (Mathematics). (Niigata) (Formerly: *J. Fac. Sci. Niigata Univ. Ser. I*)
- Sci. Rep. Res. Inst. Theoret. Phys. Hiroshima Univ.* Scientific Reports of the Research Institute for Theoretical Physics, Hiroshima University. (Hiroshima)
- Sci. Rep. Res. Inst. Tōhoku Univ. Ser. A.* The Science Reports of the Research Institutes. Tōhoku University. Series A. (Physics, Chemistry and Metallurgy). (Sendai)
- Sci. Rep. Saitama Univ. Ser. A.* The Science Reports of the Saitama University. Series A. Mathematics, Physics and Chemistry. (Urawa)
- Sci. Rep. Tōhoku Univ. Ser. I.* The Science Reports of the Tōhoku University. First Series. (Physics, Chemistry, Astronomy). (Sendai)
- Sci. Rep. Tokyo Kyoiku Daigaku Sect. A.* Science Reports of the Tokyo Kyoiku Daigaku. Section A. (Tokyo)
- Sci. Rep. Yokohama Nat. Univ. Sect. I.* Science Reports of the Yokohama National University. Section I. Mathematics, Physics. (Yokohama)
- Sci. Sinica.* Scientia Sinica. (Peking)
- Scripta Math.* Scripta Mathematica. A Quarterly Journal Devoted to the Philosophy, History, and Expository Treatment of Mathematics. (New York)
- Shuxue Jinzhan.* Shuxue Jinzhan. (Shanghai)

ABBREVIATIONS OF NAMES OF JOURNALS

- SIAM Rev.* *SIAM Review*. A Publication of the Society for Industrial and Applied Mathematics. (Philadelphia, Pa.)
- Sibirsk. Mat. Ž.* *Sibirskii Matematicheskii Zhurnal*. (Moscow)
- Simon Stevin.* *Simon Stevin*. *Wis-en Natuurkundig Tijdschrift*. (Groningen-Djakarta)
- Skand. Aktuarietidskr.* *Skandinavisk Aktuarietidskrift*. (Uppsala)
- Skr. Norske Vid.-Akad. Oslo I.* *Skrifter Utgitt av det Norske Videnskaps-Akademi i Oslo. I. Mat.-Naturv. Klasse*. (Oslo)
- Smithsonian Contrib. to Astrophys.* *Smithsonian Contributions to Astrophysics*. (Washington, D.C.)
- Soc. Actuar. Trans.* *Society of Actuaries. Transactions*. (Chicago, Ill.)
- Soc. Parana. Mat. Anuário.* *Anuário da Sociedade Paranaense de Matemática*. (Curitiba)
- Soc. Sci. Fenn. Comment. Phys.-Math.* *Societas Scientiarum Fennica. Commentationes Physico-Mathematicae*. (Helsinki)
- Soobš. Akad. Nauk Gruzin. SSR.* *Soobščeniia Akademii Nauk Gruzinskoi SSR*. (Tiflis)
- Soviet Astronom. AJ.* *Soviet Astronomy. AJ.* (A translation of *Astronomičeskii Zhurnal* of the Academy of Sciences of the USSR). (New York) (Translation of *Astronom. Ž.*)
- Soviet Math. Dokl.* *Soviet Mathematics. Doklady*. (A translation of the mathematics section of *Doklady Akademii Nauk SSSR*). (Providence, R.I.) (Translation of mathematics section of *Dokl. Akad. Nauk SSSR*)
- Soviet Physics Acoust.* *Soviet Physics. Acoustics*. (A translation of *Akustičeskii Zhurnal* of the Academy of Sciences of the USSR) (New York) (Translation of *Akust. Ž.*)
- Soviet Physics Cryst.* *Soviet Physics. Crystallography*. (A translation of the journal *Kristallografiia* of the Academy of Sciences of the USSR). (New York) (Translation of *Kristallografiia*)
- Soviet Physics Dokl.* *Soviet Physics. Doklady*. (A translation of the physics sections of *Doklady Akademii Nauk SSSR*). (New York) (Translation of physics sections of *Dokl. Akad. Nauk SSSR*)
- Soviet Physics JETP.* *Soviet Physics. JETP*. (A translation of *Ž. Eksperimental'noi i Teoreticheskoi Fiziki* of the USSR). (New York) (Translation of *Ž. Eksper. Teoret. Fiz.*)
- Soviet Physics Solid State.* *Soviet Physics. Solid State*. (A translation of the journal *Fizika Tverdogo Tela* of the Academy of Sciences of the USSR). (New York) (Translation of *Fiz. Tverd. Tela*)
- Soviet Physics Tech. Phys.* *Soviet Physics. Technical Physics*. (A translation of *Zhurnal Tehnicheskoi Fiziki* of the Academy of Sciences of the USSR). (New York) (Translation of *Ž. Tehn. Fiz.*)
- Soviet Physics Uspekhi.* *Soviet Physics. Uspekhi*. (A translation of *Uspehi Fizicheskikh Nauk* (Advances in the Physical Sciences) of the Academy of Sciences, U.S.S.R.). (New York) (Translation of *Uspehi Fiz. Nauk*)
- Spisy Pfirod. Fak. Univ. Brno.* *Spisy Přírodovědecké Fakulty University v Brně. Trudy Estestvenno-Istoricheskogo Fakul'teta Universiteta v g. Brno. Publications de la Faculté des Sciences de l'Université à Brno*. (Brno)
- SRI J.* *SRI Journal*. (Menlo Park, Calif.)
- Statist. Theory Method Abstracts.* *Statistical Theory and Method Abstracts*. (London) (Formerly: *Internat. J. Abstracts Statist. Theory Method*)
- Statistica (Bologna).* *Statistica*. (Bologna)
- Statistica Neerlandica.* *Statistica Neerlandica. Orgaan van de Vereniging voor Statistiek*. (The Hague)
- Stroje na Zpracování Informací.* *Stroje na Zpracování Informací*. (Prague)
- Studia Logica.* *Polaka Akademia Nauk. Komitet Filozoficzny. Studia Logica*. (Warsaw)
- Studia Math.* *Polaka Akademia Nauk. Studia Mathematica*. (Warsaw)
- Studia Univ. Babeş-Bolyai Ser. I Math. Phys.* *Studia Universitatis Babeş-Bolyai. Series I. Mathematica Physica*. (Cluj) (Continued as: *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.*)
- Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* *Studia Universitatis Babeş-Bolyai. Series Mathematica-Physica*. (Cluj) (Formerly: *Studia Univ. Babeş-Bolyai Ser. I Math. Phys.*)
- Sudhoffs Arch.* *Sudhoffs Archiv für Geschichte der Medizin und der Naturwissenschaften*. (Wiesbaden)
- Sūgaku.* *Sūgaku*. (Tokyo)
- Summa Brasil. Math.* *Summa Brasiliensis Mathematicae*. (Rio de Janeiro)
- Svenska Aeroplan A. B. Tech. Notes.* *SAAB Aircraft Company. Svenska Aeroplan Aktiebolaget. Technical Notes*. (Linköping)
- Tartu Riikl. Ül. Toimetised.* *Tartu Riikliku Ülikooli Toimetised. Učenyje Zapiski Tartuskogo Gosudarstvennogo Universiteta. Matematika-Loodusteaduskonna Töid. Trudy Estestvenno-Matematicheskogo Fakulteta*. (Tallin)
- Tashkent. Gos. Ped. Inst. Učen. Zap.* *Ministerstvo Prosveščeniia Uzbekskoi SSR. Tashkentskii Gosudarstvennyi Pedagogičeskii Institut im. Nizami. Učenyje Zapiski. Fiziko-Matematicheskii*. (Tashkent)
- Tbilias. Gos. Univ. Trudy Ser. Meh.-Mat. Nauk.* *Tbiliskii Gosudarstvennyi Universitet. Trudy. Serija Mehaniko-Matematicheskikh Nauk*. (Tiflis)
- Tech. Moderne.* *La Technique Moderne*. (Paris)
- Tech. Rep. Engrg. Res. Inst. Kyoto Univ.* *Technical Reports of the Engineering Research Institute. Kyoto University*. (Kyoto)
- Tech. Transl.* *Technical Translations*. (Washington, D.C.)
- Technometrics.* *Technometrics. A Journal of Statistics for the Physical, Chemical and Engineering Sciences*. (Princeton, N.J.)
- Tensor.* *Tensor. New Series*. (Sapporo)
- Teor. Verojatnost. i Primenen.* *Akademija Nauk SSSR. Teorija Verojatnostei i ee Primeneniia*. (Moscow) (Translated as: *Theor. Probability Appl.*)
- Thalès.* *Thalès. Recueil Annuel des Travaux de l'Institut d'Histoire des Sciences et des Techniques de l'Université de Paris*. (Paris)
- Theor. Probability Appl.* *Theory of Probability and its Applications*. (An English translation of the Soviet journal *Teorija Verojatnostei i ee Primeneniia*). (Philadelphia, Pa.) (Translation of *Teor. Verojatnost. i Primenen.*)
- Theoria (Lund).* *Theoria. A Swedish Journal of Philosophy and Psychology*. (Lund)
- Tōhoku Math. J.* *The Tōhoku Mathematical Journal*. (Sendai)
- Tomsk. Gos. Univ. Učen. Zap.* *Tomskii Gosudarstvennyi Universitet im. V. V. Kuibysëva. Učenyje Zapiski*. (Tomsk)
- Topology.* *Topology. An International Journal of Mathematics*. (Oxford)
- Trabajos Estadíst.* *Trabajos de Estadística*. (Madrid)
- Trans. Amer. Inst. Elec. Engrs.* *Transactions of the American Institute of Electrical Engineers*. (New York)
- Trans. Amer. Math. Soc.* *Transactions of the American Mathematical Society*. (Providence, R.I.)
- Trans. Amer. Philos. Soc.* *Transactions of the American Philosophical Society Held at Philadelphia for Promoting Useful Knowledge*. (Philadelphia, Pa.)
- Trans. ASME Ser. B. J. Engrg. Indust.* *Transactions of the ASME. Series B. Journal of Engineering for Industry*. (New York)

ABBREVIATIONS OF NAMES OF JOURNALS

- Trans. ASME Ser. E. J. Appl. Mech.* Transactions of the ASME. Series E. Journal of Applied Mechanics. (New York)
- Trans. Faraday Soc.* Transactions of the Faraday Society. (London)
- Trans. New York Acad. Sci.* Transactions of the New York Academy of Sciences. (New York)
- Trans. Roy. Soc. Edinburgh.* Transactions of the Royal Society of Edinburgh. (Edinburgh)
- Trans. Roy. Soc. New Zealand General.* Transactions of the Royal Society of New Zealand. General. (Wellington)
- Trans. Roy. Soc. South Africa.* Transactions of the Royal Society of South Africa. (Cape Town)
- Trav. Soc. Sci. Lett. Wrocław Ser. B.* Travaux de la Société des Sciences et des Lettres de Wrocław. Série B. (Wrocław)
- Trudy Akad. Nauk Litov. SSR Ser. B.* Lietuvos TSR Mokslų Akademijos. Darbai. Serija B. Akademii Nauk Litovskoi SSR. Trudy. Serija B. (Vilna)
- Trudy Inst. Ist. Estest. Tehn. Akademija Nauk SSSR.* Trudy Instituta Istории Estestvoznaniya i Tehniki. (Moscow)
- Trudy Inst. Teoret. Astronom. Akademija Nauk SSSR.* Trudy Instituta Teoreticheskoi Astronomii. (Moscow)
- Trudy Leningrad. Tehn. Inst. Trudy Kafedr. Meh. Fak.* Ministerstvo Vyshego Obrazovaniya SSSR. Trudy Leningradskogo Tekhnologicheskogo Instituta im. Lensovet. Trudy Kafedr. Mehanicheskogo Fakul'teta. (Leningrad)
- Trudy Mat. Inst. Steklov.* Akademija Nauk Sojuza Sovetskikh Socialisticheskikh Respublik. Trudy Matematicheskogo Instituta im. V. A. Steklova. (Moscow-Leningrad)
- Trudy Moskov. Mat. Obšč.* Trudy Moskovskogo Matematicheskogo Obščestva. (Moscow)
- Trudy Samarkand. Gos. Univ. Mat.* Ministerstvo Vyshego i Srednego Special'nogo Obrazovaniya UzSSR. Trudy Samarkandskogo Gosudarstvennogo Universiteta im. A. Navoi. Matematika. (Samarkand)
- Trudy Sem. Vektor. Tensor. Anal.* Trudy Seminara po Vektornomu i Tenzornomu Analizu s ih Prilozheniyami k Geometrii, Mehaniki i Fiziki. (Moscow)
- Trudy Tashkent. Gos. Univ.* Trudy Tashkentakogo Gosudarstvennogo Universiteta im. V. I. Lenina. Matematika. (Tashkent)
- Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* Trudy Tomskogo Gosudarstvennogo Universiteta im. V. V. Kuibysheva. Serija Mehaniko-Matematicheskaja. (Tomak) (Formerly: *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat. Geom. Sb.*)
- Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat. Geom. Sb.* Trudy Tomakogo Gosudarstvennogo Universiteta im. V. V. Kuibysheva. Serija Mehaniko-Matematicheskaja. Geometričeskii Sbornik. (Tomsk) (Continued as: *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.*)
- Trudy Vyčisl. Centra Akad. Nauk Gruzin. SSR.* Akademija Nauk Gruzinskoi SSR. Trudy Vyčislitel'nogo Centra. (Tiflis)
- Tul'sk. Gos. Ped. Inst. Učen. Zap. Fiz.-Mat. Nauk.* Tul'skii Gosudarstvennyi Pedagogičeskii Institut im. L. N. Tolstogo. Učenyje Zapiski. Fiziko-Matematicheskije Nauki. (Tula)
- U.S.S.R. Comput. Math. and Math. Phys.* U.S.S.R. Computational Mathematics and Mathematical Physics. (Oxford) (Translation of *Ž. Vyčisl. Mat. i Mat. Fiz.*)
- Učen. Zap. Borisoglebsk. Gos. Ped. Inst.* Ministerstvo Prosvetšeniya RSFSR. Učenyje Zapiski. Borisoglebskogo Gosudarstvennogo Pedagogičeskogo Instituta. (Borisoglebsk)
- Učen. Zap. Karel. Ped. Inst. Ser. Fiz.-Mat. Nauk.* Ministerstvo Prosvetšeniya RSFSR. Karel'skii Pedagogičeskii Institut. Učenyje Zapiski. Serija Fiziko-Matematicheskikh Nauk. (Petrozavodsk)
- Učen. Zap. Ural. Gos. Univ.* Učenyje Zapiski Ural'skogo Gosudarstvennogo Universiteta im. A. M. Gor'kogo. (Pri Učastii Ural'skogo Matematicheskogo Obščestva.) (Sverdlovsk)
- Ukrain. Mat. Ž.* Akademija Nauk Ukrainakoi SSR. Institut Matematiki. Ukrainkii Matematicheskii Žurnal. (Kiev)
- Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz.* Univerzitet u Beogradu. Publikacije Elektrotehničkog Fakulteta. Serija Matematika i Fizika. (Belgrade)
- Univ. Buenos Aires Contrib. Ci. Ser. Fis.* Universidad de Buenos Aires. Facultad de Ciencias Exactas, Fisicas y Naturales. Contribuciones Cientificas. Serie Fisica. (Buenos Aires)
- Univ. Buenos Aires Contrib. Ci. Ser. Mat.* Universidad de Buenos Aires. Facultad de Ciencias Exactas y Naturales. Contribuciones Cientificas. Serie Matematica. (Buenos Aires)
- Univ. California Publ. Math.* University of California. Publications in Mathematics. (Berkeley-Los Angeles, Calif.)
- Univ. California Publ. Statist.* University of California. Publications in Statistics. (Berkeley-Los Angeles, Calif.)
- Univ. Central Venezuela Bol. Fac. Ing.* Universidad Central de Venezuela. Boletín de la Facultad de Ingenieria. (Caracas)
- Univ. e Politec. Torino Rend. Sem. Mat.* Università e Politecnico di Torino. Rendiconti del Seminario Matematico (già "Conferenze di Fisica e di Matematica"). (Turin)
- Univ. Illinois Bull. Engrg. Exper. Station Bull.* University of Illinois. Bulletin. Engineering Experiment Station Bulletin. (Urbana, Ill.)
- Univ. Lisboa Revista Fac. Ci. A.* Universidade de Lisboa. Revista da Faculdade de Ciências. 2.ª Série. A. Ciências Matemáticas. (Lisbon)
- Univ. Madrid Publ. Sec. Mat. Fac. Ci.* Universidad de Madrid. Publicaciones de la Sección de Matemática de la Facultad de Ciencias. (Madrid)
- Univ. Nac. La Plata Publ. Fac. Ci. Fisicomat. Serie Segunda Rev. (or Contrib.)* Universidad Nacional de La Plata. Publicaciones de la Facultad de Ciencias Fisicomatemáticas. Serie Segunda. Revista (or Contribuciones). (La Plata)
- Univ. Nac. La Plata Publ. Fac. Ci. Fisicomat. Serie Tercera Publ. Esp.* Universidad Nacional de La Plata. Publicaciones de la Facultad de Ciencias Fisicomatemáticas. Serie Tercera. Publicaciones Especiales. (La Plata)
- Univ. Nac. Tucumán Publ.* Universidad Nacional de Tucumán. Publicación. (Tucumán)
- Univ. Nac. Tucumán Rev. Ser. A.* Universidad Nacional de Tucumán. Facultad de Ciencias Exactas y Tecnología. Revista. Serie A. Matemáticas y Física Teórica. (Tucumán)
- Univ. Repúb. Fac. Ingen. Agrimens. Montevideo Publ. Inst. Mat. Estadist.* Universidad de la República. Facultad de Ingenieria y Agrimensura. Montevideo-Uruguay. Publicaciones del Instituto de Matemática y Estadística. (Montevideo)
- Univ. Adama Mickiewicza w Poznan. Prace Wydz. Mat. Fiz. Chem. Ser. Mat.* Uniwersytet im. Adama Mickiewicza w Poznaniu. Prace Wydziału Matematyki, Fizyki i Chemii. Seria Matematyka. (Poznań)
- Ural. Gos. Univ. Mat. Zap.* Ministerstvo Vyshego i Srednego Special'nogo Obrazovaniya RSFSR. Ural'skii Gosudarstvennyi Universitet im. A. M. Gor'kogo. Ural'skoe Matematicheskoe Obščestvo. Matematicheskije Zapiski. (Sverdlovsk)
- Ural. Politehn. Inst.* Ural'skii Politehničeskii Institut im. S. M. Kirova. (Sverdlovsk)
- Uspehi Fiz. Nauk.* Akademija Nauk SSSR. Uspehi Fizicheskikh Nauk. (Moscow-Leningrad) (Translated as: *Soviet Physics Uspekhi*)
- Uspehi Mat. Nauk.* Akademija Nauk SSSR i Moskovskoe Matematicheskoe Obščestvo. Uspehi Matematicheskikh Nauk. (Moscow-Leningrad) (Selected articles translated as: *Russian Math. Surveys*)
- Užgorod. Gos. Univ. Naučn. Zap. MVO USSR.* Užgorodskii Gosudarstvennyi Universitet. Naučnyje Zapiski. (Lvov)
- Verh. Nederl. Akad. Wetensch. Afd. Natuurk. Sect. I.* Verhandelingen der Koninklijke Nederlandse Akademie van Wetenschappen, Afdeling Natuurkunde. Eerste Sectie. (Amsterdam)

ABBREVIATIONS OF NAMES OF JOURNALS

- Vesci Akad. Navuk BSSR Ser. Fiz.-Tehn. Navuk.* Vesci Akademii Navuk BSSR. Serija Fizika-Tehničnyh Navuk. (Minsk)
- Vestnik Akad. Nauk Kazah. SSR.* Vestnik Akademii Nauk Kazahskoi SSR. (Alma-Ata)
- Vestnik Leningrad. Univ. Ser. Fiz. Him.* Vestnik Leningradskogo Universiteta. Serija Fiziki, Himii. (Leningrad)
- Vestnik Leningrad. Univ. Ser. Mat. Meh. Astronom.* Vestnik Leningradskogo Universiteta. Serija Matematiki, Mehaniki i Astronomii. (Leningrad)
- Vestnik Moskov. Univ. Ser. I Mat. Meh.* Vestnik Moskovskogo Universiteta. Serija I. Matematika, Mehanika. (Moscow)
- Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* Vestnik Moskovskogo Universiteta. Serija III. Fizika, Astronomija. (Moscow)
- Vestnik Statist.* Vestnik Statistiki. Organ Central'nogo Statistického Upravlenija pri Sovete Ministrov SSSR. (Moscow)
- Viertelschr. Naturforsch. Ges. Zürich.* Vierteljahrsschrift der Naturforschenden Gesellschaft in Zürich. (Zürich)
- Vijnana Parishad Anusandhan Patrika.* Vijnana Parishad Anusandhan Patrika [The Research Journal of the Hindi Science Academy]. (Allahabad)
- Vilniaus Valst. Univ. Mokslo Darbai Mat. Fiz. Chem. Mokslų Ser. TSRS Aukštojo Mokslo Ministerija.* Vilniaus Valstybinis Universitetas. Mokslo Darbai. Matematikos, Fizikos ir Chemijos Mokslų Serija. Ministerstvo Vyšnego Obrazovanija SSSR. Vil'nyuskii Gosudarstvennyi Universitet. Učenyje Trudy. Serija Matematičeskij, Fizičeskij i Himičeskij Nauk. (Vilna)
- Virginia J. Sci.* The Virginia Journal of Science. A Journal issued Quarterly by the Virginia Academy of Science. (Blacksburg, Va.)
- Voprosy Istor. Estest. i Tehn.* Akademija Nauk SSSR. Voprosy Istorii Estestvoznaniia i Tehniki. (Moscow)
- Voprosy Kosmog.* Akademija Nauk SSSR. Voprosy Kosmogonii. (Moscow)
- Vsesojuz. Zaočn. Inst. Inž. Železn. Transport. Učen. Zap. Trudy Kafedr Vyš. Mat. i Teoret. Meh. SSSR.* Ministerstvo Putel Soobščeniia Vsesojuznyi Zaočnyi Institut Inženerov Železnodorožnogo Transporta. Učenyje Zapiski. Trudy Kafedr Vyšiej Matematiki i Teoretičeskoi Mehaniki. (Moscow)
- Vychisl. Sistemy.* Akademija Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. Vychislitel'nye Sistemy. Sbornik Trudov. (Novosibirsk)
- Wiedom. Mat. Roczniki Polskiego Towarzystwa Matematycznego. Ser. II.* Wiadomości Matematyczne. (Warsaw)
- Wiss. Z. Ernst-Moritz-Arndt-Univ. Greifswald Math.-Natur. Reihe.* Wissenschaftliche Zeitschrift der Ernst-Moritz-Arndt-Universität Greifswald. Mathematisch-Naturwissenschaftliche Reihe. (Greifswald)
- Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen.* Wissenschaftliche Zeitschrift der Friedrich-Schiller-Universität Jena/Thüringen. (Jena/Thüringen)
- Wiss. Z. Hochsch. Elektrotech. Ilmenau.* Wissenschaftliche Zeitschrift der Hochschule für Elektrotechnik. Ilmenau. (Ilmenau) (Continued as: *Wiss. Z. Techn. Hochsch. Ilmenau*)
- Wiss. Z. Hochsch. Verkehrswesen "Friedrich List" Dresden.* Wissenschaftliche Zeitschrift der Hochschule für Verkehrswesen "Friedrich List" in Dresden. Die Anwendung mathematischer Methoden im Transport- und Nachrichtenwesen. (Dresden)
- Wiss. Z. Humboldt-Univ. Berlin Math.-Natur. Reihe.* Wissenschaftliche Zeitschrift der Humboldt-Universität Berlin. Mathematisch-Naturwissenschaftliche Reihe. (Berlin)
- Wiss. Z. Karl-Marx-Univ. Leipzig Math.-Natur. Reihe.* Wissenschaftliche Zeitschrift der Karl-Marx-Universität Leipzig. Mathematisch-Naturwissenschaftliche Reihe. (Leipzig)
- Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe.* Wissenschaftliche Zeitschrift der Martin-Luther-Universität Halle-Wittenberg. Mathematisch-Naturwissenschaftliche Reihe. (Halle-Wittenberg)
- Wiss. Z. Pädagog. Hochsch. Potsdam Math.-Natur. Reihe.* Wissenschaftliche Zeitschrift der Pädagogischen Hochschule Potsdam. Mathematisch-Naturwissenschaftliche Reihe. (Potsdam)
- Wiss. Z. Techn. Hochsch. Chem. Leuna-Merseburg.* Wissenschaftliche Zeitschrift der Technischen Hochschule für Chemie Leuna-Merseburg. (Leuna-Merseburg)
- Wiss. Z. Techn. Hochsch. Dresden.* Wissenschaftliche Zeitschrift der Technischen Hochschule Dresden. (Dresden) (Continued as: *Wiss. Z. Techn. Univ. Dresden*)
- Wiss. Z. Techn. Hochsch. Ilmenau.* Wissenschaftliche Zeitschrift der Technischen Hochschule Ilmenau. (Ilmenau) (Formerly: *Wiss. Z. Hochsch. Elektrotech. Ilmenau*)
- Wiss. Z. Techn. Univ. Dresden.* Wissenschaftliche Zeitschrift der Technischen Universität Dresden. (Dresden) (Formerly: *Wiss. Z. Techn. Hochsch. Dresden*)
- Yokohama Math. J.* Yokohama Mathematical Journal. (Yokohama)
- Z. Angew. Math. Mech.* Zeitschrift für Angewandte Mathematik und Mechanik. Ingenieurwissenschaftliche Forschungsarbeiten. (Berlin)
- Z. Angew. Math. Phys.* Zeitschrift für Angewandte Mathematik und Physik. ZAMP. Journal of Applied Mathematics and Physics. Journal de Mathématiques et de Physiques Appliquées. (Basel)
- Z. Angew. Phys.* Zeitschrift für Angewandte Physik. (Berlin)
- Z. Astrophys.* Zeitschrift für Astrophysik. (Berlin-Göttingen-Heidelberg)
- Z. Eksper. Teoret. Fiz. Akademija Nauk SSSR. Žurnal Eksperimental'noj i Teoretičeskoi Fiziki.* (Moscow) (Translated as: *Soviet Physics JETP*)
- Z. Flugwiss.* Zeitschrift für Flugwissenschaften. (Braunschweig)
- Z. Math. Logik Grundlagen Math.* Zeitschrift für Mathematische Logik und Grundlagen der Mathematik. (Berlin)
- Z. Meteorol.* Zeitschrift für Meteorologie. (Berlin)
- Z. Naturforsch.* Zeitschrift für Naturforschung. (Tübingen)
- Z. Phonetik Sprachwiss. Kommunikat.* Zeitschrift für Phonetik Sprachwissenschaft und Kommunikationsforschung. (Berlin)
- Z. Physik.* Zeitschrift für Physik. (Berlin-Göttingen-Heidelberg)
- Z. Tehn. Fiz. Akademija Nauk SSSR. Žurnal Tehničeskoi Fiziki.* (Moscow-Leningrad) (Translated as: *Soviet Physics Tech. Phys.*)
- Z. Vychisl. Mat. i Mat. Fiz. Akademija Nauk SSSR. Žurnal Vychislitel'noj Matematiki i Matematičeskoi Fiziki.* (Moscow) (Translated as: *U.S.S.R. Comput. Math. and Math. Phys.*)
- Z. Wahrscheinlichkeitstheorie und Verw. Gebiete.* Zeitschrift für Wahrscheinlichkeitstheorie und Verwandte Gebiete. (Berlin)
- Zastos. Mat. Polska Akademia Nauk. Instytut Matematyczny. Zastosowania Matematyki.* (Warsaw)
- Zbirnik Prac' z Obšis. Mat. i Tehn. Akademija Nauk Ukraїn'koї RSR. Obščisljuval'nij Centr. Zbirnik Prac' z Obščisljuval'noj Matematiki i Tehniki.* (Kiev)
- Zbl. Zentralblatt für Mathematik und ihre Grenzgebiete.* (Berlin-Göttingen-Heidelberg)
- Zbl. Math. Zentralblatt für Mathematik und ihre Grenzgebiete.* (Berlin-Göttingen-Heidelberg) (Usually abbreviated *Zbl* in the text of *Math. Reviews*)
- Zeszyty Nauk. Uniw. Jagiello. Prace Mat. Zeszyty Naukowe Uniwersytetu Jagiellońskiego. Prace Matematyczne.* (Matematyka, Fizyka, Chemia) (Kraków)

JOURNALS IN TRANSLATION

Automat. Remote Control. Automation and Remote Control. (A translation of *Avtomatika i Telemekhanika*, a publication of the Academy of Sciences of the USSR). (Pittsburgh, Pa.) (Translation of *Avtomat. i Telemekh.*)

Bull. (Izv.) Acad. Sci. USSR Geophys. Ser. Bulletin (Izvestiya) Academy of Sciences, USSR. Geophysics Series. (Washington, D.C.) (Translation of *Izv. Akad. Nauk SSSR Ser. Geofiz.*)

Chinese Math. Chinese Mathematics. Translation of *Acta Mathematica Sinica*. (Providence, R.I.) (Translation of *Acta Math. Sinica*)

J. Appl. Math. Mech. Journal of Applied Mathematics and Mechanics. (Translation of the Soviet journal *Prikladnaya Matematika i Mekhanika*). (New York) (Translation of *Prikl. Mat. Meh.*)

Probleme der Kybernetik. Probleme der Kybernetik. (Berlin) (Translation of *Problemy Kibernet.*)

Radio Engng. and Electronics. Radio Engineering and Electronics. (Translation of *Radiotekhnika i Elektronika*, a U.S.S.R. Academy of Sciences Publication). (New York) (Translation of *Radiotekhn. i Elektron.*)

Russian Math. Surveys. Russian Mathematical Surveys. (A translation of the survey articles and of selected biographical articles in *Uspehi Matematicheskikh Nauk*). (London) (Translation of *Uspehi Mat. Nauk*)

Soviet Astronom. AJ. Soviet Astronomy. AJ. (A translation of *Astronomicheskii Zhurnal* of the Academy of Sciences of the USSR). (New York) (Translation of *Astronom. Zh.*)

Soviet Math. Dokl. Soviet Mathematics. Doklady. (A translation of the mathematics section of *Doklady Akademii Nauk SSSR*). (Providence, R.I.) (Translation of mathematics section of *Dokl. Akad. Nauk SSSR*)

Soviet Physics Acoust. Soviet Physics. Acoustics. (A translation of *Akusticheskii Zhurnal* of the Academy of Sciences of the USSR). (New York) (Translation of *Akust. Zh.*)

Soviet Physics Cryst. Soviet Physics. Crystallography. (A translation of the journal *Kristallografiya* of the Academy of Sciences of the USSR). (New York) (Translation of *Kristallografiya*)

Soviet Physics Dokl. Soviet Physics. Doklady. (A translation of the physics sections of *Doklady Akademii Nauk SSSR*). (New York) (Translation of physics sections of *Dokl. Akad. Nauk SSSR*)

Soviet Physics JETP. Soviet Physics. JETP. (A translation of *Zh. Eksperimental'noi i Teoreticheskoi Fiziki* of the USSR). (New York) (Translation of *Zh. Eksper. Teoret. Fiz.*)

Soviet Physics Solid State. Soviet Physics. Solid State. (A translation of the journal *Fizika Tverdogo Tela* of the Academy of Sciences of the USSR). (New York) (Translation of *Fiz. Tverd. Tela*)

Soviet Physics Tech. Phys. Soviet Physics. Technical Physics. (A translation of *Zhurnal Tekhnicheskoi Fiziki* of the Academy of Sciences of the USSR). (New York) (Translation of *Zh. Tehn. Fiz.*)

Soviet Physics Uspekhi. Soviet Physics. Uspekhi. (A translation of *Uspehi Fizicheskikh Nauk* (Advances in the Physical Sciences) of the Academy of Sciences, U.S.S.R.). (New York) (Translation of *Uspehi Fiz. Nauk*)

Theor. Probability Appl. Theory of Probability and its Applications. (An English translation of the Soviet journal *Teoriya Veroyatnostei i ee Primeneniya*). (Philadelphia, Pa.) (Translation of *Teor. Veroyatnost. i Primeneniya*)

U.S.S.R. Comput. Math. and Math. Phys. U.S.S.R. Computational Mathematics and Mathematical Physics. (Oxford) (Translation of *Z. Vyčisl. Mat. i Mat. Fiz.*)

ERRATA AND ADDENDA

VOLUME 19

p. 395: Krasner, Marc

In line 12 of the first review, read "If the field k is not . . ." instead of "If the residue class field of k is not . . .".

To the second review, add "If an analytic function is given by a Taylor series, then either it cannot be pro-

longed outside its circle of convergence or the circle of convergence does not include its circumference, and (in a suitable extension field) there is a singularity (i.e., a point to which the function cannot be prolonged) on the circumference".

VOLUME 26

#2537: Šain, B. M.

The reviewer would like to add the following to his review.

Here also the structure of generalized heaps is fully described. The special case of symmetric heaps was treated by the author in a previous paper [Naučn. Dokl. Vysš. Školy Fiz.-Mat. Nauki 1959, no. 1, 88-99; Zbl 94, 10-11]. A detailed review can be found in RZMat 1962 #8 A164.

#2870: Semenov, E. M.

The reviewer remarks that the upper limits of the integrals on lines -6 and -8 should be h , not 1; the integral in the first displayed formula is correct, however.

#3820: Furstenberg, Harry

The reviewer submits the following correction to his review. "As mentioned in the review, the author's result that a bounded solution of Laplace's equation on G/K is also annihilated by the other invariant differential operators on G/K has also been announced by F. A.

Berezin [Dokl. Akad. Nauk SSSR 125 (1959), 1187-1189; MR 21 #3014]. However, Berezin's proof, as outlined there, seems faulty, being based on an incorrect form of the asymptotic formula for the spherical functions on G/K ."

#3903: Sato, Daihachiro

The second displayed formula should read

$$k = k_{(q)} = \limsup \log^{q-1} M(r)/r^k.$$

#4936: Perkins, Peter

The reviewer wishes, as a result of a recent discovery, to append the following significant priority references concerning the 'Wielandt bound' to Leopold Löwenheim [S.-B. Berlin. Math. Ges. 12 (1913), 65-71; Math. Ann. 73 (1913), 245-272].

Beurling, Arne; Livingston, A. E.

On p. 1424 of the index issue the review number associated with Beurling should be 2851 and not 2551; the listing is correctly given under Livingston.

VOLUME 27

#720: Arhangel'skii, A.

The reviewer points out that the second metrization theorem in the paper is not new; indeed, it was proved earlier by F. Burton Jones [Proc. Amer. Math. Soc. 9 (1958), 487; MR 20 #278].

#2102: Hsu, L. C.

The remainder term in the displayed formula should be $O(N^{-p/m} \omega_p(N^{-1/m}))$.

#2103: Hsu, L. C.

On the right-hand side of the formula, read $(-1)^k/m!$ for $(-1)^k/m$.

#3480: Brown, William M.

Lines 10-11 of the penultimate paragraph should read "... Z-transform (sampled-data theory as developed by Zadeh and Ragazzini [see Ragazzini and Franklin, Sampled-data control systems, McGraw-Hill, . . .].

#5240: Church, P. T.; Hemmingsen, E.

In line 5 of paragraph 4 of the review, replace the word "exceptionally" by "exceptionality".

#5299: Hanisch, Herman; Hirsch, Warren M.

In line 9 of the review, replace " $\mu_G \int_0^\infty t dG(t) < \infty$ " by " $\mu_G = \int_0^\infty t dG(t) < \infty$ ".

#5861: Macbeath, A. M.; Świerczkowski, S.

In line 17 of the review the words " m , and almost" should be replaced by " m -almost".

#5964: Lukašević, N. A.

The reference to Kukles in the review should be Dokl. Akad. Nauk SSSR and not Dokl. Akad. Nauk BSSR (as is implied by the use of "ibid.>").

VOLUME 28

#160: Skubenko, B. F.

In the last displayed expression, replace $\sum_{a|n}$ by $\sum_{a|N}$.

#400: Walsh, J. L.

In line 22 of the review, replace "the norm is as in (1)" by "the norm is $[\max |f(z) - r_{jk}(z)|, z \text{ on } E]$ ".

#1171: Baker, A.

The author remarks that, beginning on p. 119 of the paper, the misprint $N = 2A^k$ in place of $N = 2^k$ appears worthy of attention.

#1340: Lorch, L.; Szego, P.

In line 4 of the review, replace " $0 < f(x) \leq \infty$ " by " $0 < f(\infty) \leq \infty$ ".

#1773: Tihonov, A. N.; Gorbunov, A. D.

Interchange the text of this review with that of the following [#1774].

#1774: Tihonov, A. N.; Gorbunov, A. D.

Interchange the text of this review with that of the preceding [#1773].

#3138: Jacobs, K.

A list of errata is available from the Matematisk Institut, Aarhus Universitet, Aarhus.

#3988: Fröhlich, A.

That part of the review following the words "d'une" in line 31 of the first column on p. 772 and ending with the words "groupe d'inertie" in line 14 of the second column should be inserted between the words "l'idèle" and "que" in line 42, column 1, of p. 773.

#5164a-b: Sinaĭ, Ja. G.

The reviewer states that the preliminary lemmas, which the author asserts are used to prove the principal result (Theorem 2), are used nowhere in the proof of the main theorem.

TRANSLITERATION OF RUSSIAN

Russian Letter Cap. Ital.	Mathematical Reviews	Zentralblatt für Mathematik	Bulletin Signalétique	Applied Mechanics Reviews	Science Abstracts	U.S. Library of Congress	Amer. Slavic & E. European Review	Journal of Symbolic Logic
А а	a	a	a	a	a	a	a	a
Б б	b	b	b	b	b	b	b	b
В в	v	v	v	v	v	v	v	v
Г г	g	g	g	g	g	g	g	g
Д д	d	d	d	d	d	d	d	d
Е е	e	e	e	e	e	e	e	é
Ё ё	ë	ë	ë	ë	ë	ë	ë	ë
Ж ж	zh	zh	zh	zh	zh	zh	zh	zh
З з	z	z	z	z	z	z	z	z
И и	i	i	i	i	i	i	i	i
Й й	j	j	j	j	j	j	j	j
К к	k	k	k	k	k	k	k	k
Л л	l	l	l	l	l	l	l	l
М м	m	m	m	m	m	m	m	m
Н н	n	n	n	n	n	n	n	n
О о	o	o	o	o	o	o	o	o
П п	p	p	p	p	p	p	p	p
Р р	r	r	r	r	r	r	r	r
С с	s	s	s	s	s	s	s	s
Т т	t	t	t	t	t	t	t	t
У у	u	u	u	u	u	u	u	u
Ф ф	f	f	f	f	f	f	f	f
Х х	h	ch	kh	kh	kh	kh	kh	h
Ц ц	c	c	c	ts	ts	ts	c	c
Ч ч	ch	ch	ch	ch	ch	ch	ch	ch
Ш ш	sh	sh	sh	sh	sh	sh	sh	sh
Щ щ	sch	sch	shch	shch	shch	shch	sch	sch
Ъ ъ	·	·	·	·	·	·	·	·
Ы ы	y	y	y	y	y	y	y	y
Ь ь	·	·	·	·	·	·	·	·
Э э	è	è	e	é	é	é	è	e
Ю ю	ju*	ju	ju	yu	yu	iu	ju	ú
Я я	ja†	ja	ja	ya	ya	ia	ja	á

* formerly yu
† formerly ya

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